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SATEX MAMMOTH ZINNIA



SATEX  
SEED COMPANY  
SEED AND POULTRY  
SUPPLY ANNUAL

VEGETABLE  
SEED TRIALS  
HORTICULTURE  
JAN 14 1933

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# You Can Plant With Confidence

## SATEX TESTED SEEDS

**I**T IS OUR EARNEST DESIRE to supply to the growers, seeds of the very best quality at all times. Regardless of whether you are a backyard gardener or a large commercial truck grower, it will pay you to plant SATEX TESTED SEEDS. Seeds that are produced from the best growers in this and foreign countries. Growers: who have established a reputation for producing seed which will reproduce true to type. Every lot of seed received from these growers is tested for germination before going out to our customers, thus assuring you of receiving only the best true to type and tested seeds. All our packet seeds are of the same quality as those demanded by the critical market gardeners' trade. Try them. They will please you.

If you are a poultry raiser, it will pay you to take advantage of the discount card enclosed with this catalog. This card allows you a 10% discount on all poultry supplies and remedies marked with an asterisk (\*) in this catalog. This discount applies only when an order amounts to fifty cents (50c) or more. All items without an asterisk (\*) are net.

Compare the quality of our merchandise with any seed or poultry supply house and you will readily see that it is to your advantage to place your orders with us. Our years of experience in the seed and poultry supply business have equipped us with the knowledge of knowing where and from whom to buy the best values, relative to quality of merchandise obtainable.

We want to take this opportunity to thank you for your valued patronage in the past years and to solicit a continuance of same.

Sincerely yours,

SATEX SEED CO., INC.

**MARKET GARDENERS**—If you are a quantity buyer of garden seeds, write for our Special Market Gardeners' Wholesale Price List.

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### Postage Charges

All garden and flower seeds quoted in catalog are postpaid up to the fifth zone. Field Seeds, Bulbs, Poultry Remedies and Supplies, Dog Remedies and Supplies, Bird Remedies and Supplies are quoted f.o.b. San Antonio. If you wish to have them sent by parcel post send enough to cover same—see Parcel Post Rates on page 2. Insecticides and Fungicides cannot be shipped by parcel post. In large shipments unless you specify way of shipment, we will ship cheapest way.

**MEXICAN CUSTOMERS**—Add 18c for first pound and 12c for each extra pound to prices, also 15c for registration. We ship up to 20 pounds per package into Mexico.

**NON-WARRANTY**—Note. There are many contingencies to be encountered in growing plants from seeds and in setting out plants that are dependent on the weather and other conditions over which we have no control, that success in planting is not altogether dependent on the seed or plant. We send out only seed that have been tested for germination, and which we believe will produce the kind of variety and plant represented; but: **SATEX SEED CO.** gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, plants or trees they send out, and will in no way be responsible for the crop. If the purchaser does not accept seeds on these terms, they are at once to be returned.

# HOW TO ORDER BY MAIL

**NOTICE:** All seeds marked postpaid are postpaid only up to and including the 4th zone. All poultry supplies and remedies marked postpaid are delivered free only up to and including the 3rd zone. If you live outside these zones add extra postage for transportation charges.

**YOUR NAME AND ADDRESS**—Be sure that your name and address in full are written very plainly. We have on file quite a few orders without any name and address, and if you should have mailed us an order and failed to receive same during the past year, kindly write us, giving approximate date of order and copy of order, and if on file, we will give same our attention. If you do not receive any goods ordered from us within ten days after the order is sent kindly let us hear from you, and we can then avoid further delay. **We fill all orders the day received,** unless unable to supply same at the time, and will advise you accordingly, so do not hesitate to write us if the goods do not show up.

**CASH WITH ORDER**—The proper way is to send remittance in full to cover order and postage. We send orders C.O.D. only if 25 per cent of the amount of order is enclosed. **Plants are never sent C.O.D.**

**REMITTANCES** should be made by Postoffice Money Order or Bank Draft. On orders up to One Dollar, we will accept clean unused postage stamps. If currency is sent, letter should be registered, and if local checks are sent they should be certified. We do not accept responsibility for orders, which never reach us.

**PARCEL POST, C.O.D.**—Packages may be sent C.O.D. at an extra expense of 12c up \$5.00, 17c up to \$25.00, 22c up to \$50.00, which amount is added to the order.

**INSURED PARCEL POST**—If customers want their packages sent insured they will kindly add cost to the remittance. Rate—Up to \$5, 5c; up to \$25, 8c.

**POSTAGE** has to be prepaid and customers will kindly add same to their valued orders, as packages cannot be mailed charged collect at destination. This refers to larger quantities than prices quoted postpaid.

**WEIGHT LIMIT**—Packages are subject to a limit of maximum weight in the first, second and third zone of 70 lbs.; in all other zones of 50 lbs.

**ZONE RATES** may be had by applying to your postmaster who will tell you which zone you are in, with reference to San Antonio, or consult parcel post schedule on this page.

**HOW TO FIGURE POSTAGE**—First figure up the weight in pounds on "Not Prepaid" items you are ordering. Then find what zone you are in from San Antonio. Take the number of pounds you are ordering in the first column and read straight across to your zone column and the amount shown is the postage to send us in addition to the cost of the seed, so we can prepay the postage.

As an example we will suppose that you want to order 14 pounds (a peck) of corn. If you lived in either the 1st or 2nd postage zone from San Antonio the amount to be sent us in addition to the price of the corn would be 23 cents; for the 4th zone 56 cents and so on. With the above table it's very easy to figure exactly, once you know what your zone number is.

If at all in doubt as to your zone be sure and send enough to cover necessary postage. If you send too much it will be returned to you.

Seventy pounds is the weight limit. If larger quantities are wanted it will have to be split into two or more shipments. Fifty pounds is the weight limit for the 4th, 5th, 6th, 7th and 8th zones.

## Parcel Post Rates

### -Zones-

Wt. in Lbs.	1 & 2	3rd	4th	5th	6th	7th	8th
1	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.14	\$0.15
2	.10	.11	.14	.17	.19	.23	.26
3	.11	.13	.17	.22	.26	.32	.37
4	.12	.15	.21	.27	.33	.41	.48
5	.13	.17	.24	.33	.40	.50	.59
6	.14	.19	.28	.38	.47	.59	.70
7	.15	.21	.31	.43	.54	.68	.81
8	.16	.23	.35	.49	.61	.77	.92
9	.17	.25	.38	.54	.68	.86	1.03
10	.18	.27	.42	.59	.75	.95	1.14
11	.19	.29	.45	.64	.82	1.04	1.25
12	.21	.31	.49	.70	.89	1.13	1.36
13	.22	.33	.52	.75	.96	1.22	1.47
14	.23	.35	.56	.80	1.03	1.31	1.58
15	.24	.37	.59	.86	1.10	1.40	1.69
16	.25	.39	.63	.91	1.17	1.49	1.80
17	.26	.41	.63	.96	1.24	1.58	1.91
18	.27	.43	.70	1.02	1.31	1.67	2.02
19	.28	.45	.73	1.07	1.38	1.76	2.13
20	.29	.47	.77	1.12	1.45	1.85	2.24
21	.30	.49	.80	1.17	1.52	1.94	2.35
22	.32	.51	.84	1.23	1.59	2.03	2.46
23	.33	.53	.87	1.28	1.66	2.12	2.57
24	.34	.55	.91	1.33	1.73	2.21	2.68
25	.35	.57	.94	1.39	1.80	2.30	2.79
26	.36	.59	.98	1.44	1.87	2.39	2.90
27	.37	.61	1.01	1.49	1.94	2.48	3.01
28	.38	.63	1.05	1.55	2.01	2.57	3.12
29	.39	.65	1.08	1.60	2.08	2.66	3.23
30	.40	.67	1.12	1.65	2.15	2.75	3.34
31	.41	.69	1.15	1.70	2.22	2.84	3.45
32	.43	.71	1.19	1.76	2.29	2.93	3.56
33	.44	.73	1.22	1.81	2.36	3.02	3.67
34	.45	.75	1.26	1.83	2.43	3.11	3.78
35	.46	.77	1.29	1.92	2.50	3.20	3.89
36	.47	.79	1.33	1.97	2.57	3.29	4.00
37	.48	.81	1.36	2.02	2.64	3.38	4.11
38	.49	.83	1.40	2.08	2.71	3.47	4.22
39	.50	.85	1.43	2.13	2.78	3.56	4.33
40	.51	.87	1.47	2.18	2.85	3.65	4.44
41	.52	.89	1.50	2.23	2.92	3.74	4.55
42	.54	.91	1.54	2.29	2.99	3.83	4.66
43	.55	.93	1.57	2.34	3.06	3.92	4.77
44	.56	.95	1.61	2.39	3.13	4.01	4.88
45	.57	.97	1.64	2.45	3.20	4.10	4.99
46	.58	.99	1.68	2.50	3.27	4.19	5.10
47	.59	1.01	1.71	2.55	3.34	4.28	5.21
48	.60	1.03	1.75	2.61	3.41	4.37	5.32
49	.61	1.05	1.78	2.66	3.48	4.46	5.43
50	.62	1.07	1.82	2.71	3.55	4.55	5.54
55	.68	1.17					
60	.73	1.27					
65	.79	1.37					
70	.84	1.47					

Zones are based on the distance you are from the shipping point, San Antonio, Texas. Up to 150 miles from San Antonio is the 1st and 2nd zones, which take the same rate. 150 to 300 miles is the 3rd zone, 300 to 600 is the 4th, 600 to 1000 is the 5th, 1000 to 1400 is the 6th, 1400 to 1800 is the 7th; over 1800 miles is 8th zone.





## Notice

All orders for Garden Seeds are priced as follows:

6—5c or 3—10c pkgs. garden seeds...25c (Postpaid)

12—5c or 6—10c pkgs. garden seeds...50c (Postpaid)

## Asparagus

**PALMETTO**—Light green, heavy yielding early producing, large clear stalks of excellent quality. Very early. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.

## Green Podded Bush Beans

### Palmetto

standard sort. Pods 4½ inches long, round and creaseback, medium green, slightly stringy and of good quality. Pkt., 10c; lb., 30c, postpaid. 10 lbs., \$1.50, not postpaid.

**BLACK VALENTINE**—Beautiful large pods about 6 inches long, slender, round and nearly straight, fine grained, dark green in color. Seed black. An early, productive, profitable gardener's variety. Plant more vigorous and productive than Red Valentine and pods darker green. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$1.50, not postpaid.

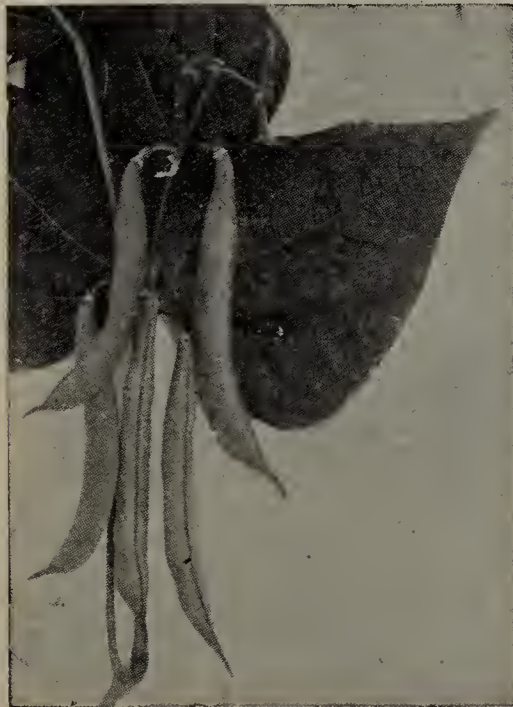
**BURPHEE'S STRINGLESS GREEN POD**—The pods are medium green, five to six inches long, cylindrical, larger than those of the Red Valentine, but not quite as fleshy, of equally high quality and remain crisp and tender longer. Absolutely stringless. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$1.75, not postpaid.

**GIANT STRINGLESS GREEN POD**—Another exceptionally fine bean for home or market, perfectly stringless; pods longer than Burpee's Stringless; strong, vigorous grower, and a continuous bearer of delicious beans for weeks. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$1.75, not postpaid.

**LONGFELLOW**—Moderately early and productive. Pods dark green, 6 to 7 inches long, very slender, straight and round; very slightly stringy, tender, fine grained, attractive and of good quality. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$1.50, not postpaid.

## Bush Wax Beans

**IMPROVED GOLDEN WAX**—One of the best beans in cultivation. Pods are long, nearly straight, broad and flat, and golden yellow; seed white, more or less covered with two shades of purplish red. Pkt. 10c; pound, 30c, postpaid. 10 lbs. \$1.75, not postpaid.



Improved Golden Wax

est quality; color very clear yellow. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$1.75, not postpaid.

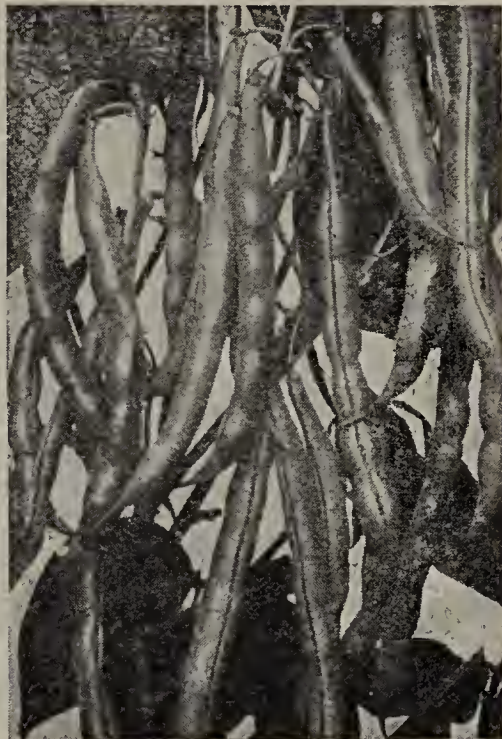
### PROLIFIC

### BLACK WAX

Early; pods are round, about five inches long, fleshy, brittle and stringless, deep yellow in color and attractive. A standard sort. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$1.75, not postpaid.

### PENCIL POD

**WAX**—Early and very productive. Pods large, 5 to 6 inches long, round, straight and creaseback, strictly stringless, free from fiber, fleshy and brittle; of high-



Stringless Green Pod

## Bush Lima Beans

**HENDERSON'S DWARF LIMA**—The earliest variety of dwarf Lima Beans, fully two weeks earlier than any other variety. Plants about 16 inches high and very prolific. Beans are small. Recommended to anyone desiring early Lima Beans. Pkt., 10c; lb., 35c, postpaid. 10 lbs., \$2.00, not postpaid.

**SPECKLED BUSH LIMA**—This variety is generally known as "calico or speckled" butter bean. The beans are of fine quality, either green-shelled or dry. It is very prolific and does well in the driest weather. The seed is sort of a brownish color. Pkt., 10c; lb., 35c, postpaid.

## Pole Lima Beans

**CAROLINA OR SIEVA**—Beans small and white on the order of Henderson Bush Lima. Plant of large growth, very early, vigorous and productive. Pkt., 10c; lb., 35c, postpaid.

**POLE SPECKLED LIMA**—This fine Butter Bean is better adapted for the wants of the Southern farmer than any other variety. It is a certain and abundant cropper. The vines are strong growers and cling well to the poles or trellis. Bear early and late. Both pods and beans are larger than the old white Carolina or Sieva Butter Bean. The beans are speckled in color, white spotted with red but are of the very highest quality, both in the green and dry state. Pkt., 10c; lb., 35c, postpaid.

## Pole Beans

**IDEAL MARKET OR BLACK-SEEDED POLE BEAN.** This bean is acknowledged to be the best pole bean in existence. It yields better than all the other varieties and is very thrifty and extremely prolific. The pods are thick, stringless, meaty, tender and delicious. Pkt., 10c; lb., 30c, postpaid.

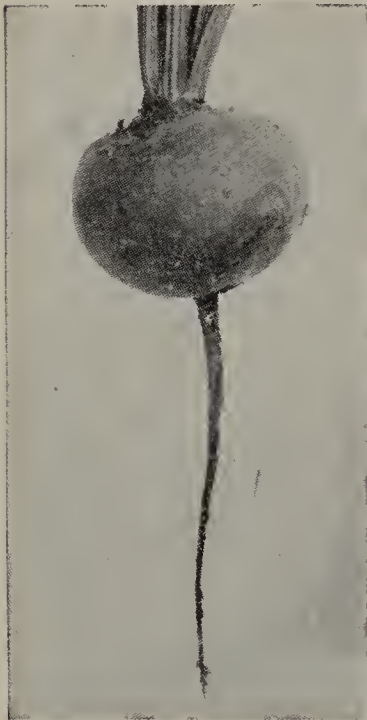
**WHITE CREASEBACK**—A white-seeded round green-pod Pole Bean, a prolific yielder of excellent quality. Sometimes called White Cornfield Beans. Pkt., 10c; lb., 30c, postpaid.

**STRIPED CREASEBACK**—A hardy and very productive green podded cornfield bean. The vines are sturdy and of good climbing habit, with small-medium, deep green leaves. The pods are long, about 6 inches, very cylindrical or completely rounded. Large pkt., 10c; 1 lb., 30c, postpaid.

**KENTUCKY WONDER**—An excellent green-podded variety; enormously productive, the long pods hanging in great clusters along the entire vine. They cook very tender and melting. Seed dark brown. Pkt., 10c; lb., 30c, postpaid.

**KENTUCKY WONDER (WAX)**—One of the earliest of the pole wax sorts. Pods eight to nine inches long, thick, decidedly creaseback; very fleshy, brittle, but stringy. Attractive and fair quality. Color light yellow. Pkt., 10c; lb., 35c, postpaid.





Detroit Dark Red

## Garden Beets

**CROSBY'S EGYPTIAN**—We have an unequalled strain of this superb, extra early sort. A flattened globe shape; skin very dark red, flesh a trifle lighter in color and slightly zoned; tops small. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**EXTRA EARLY ECLIPSE**—A fine early table beet, top-shaped or tapering, globe shaped. Flesh deep crimson, zoned with pink. Crisp and sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**DETROIT DARK RED TURNIP**—Roots roundish, smooth; dark red; flesh bright red, zoned with lighter; crisp, tender, sweet, a good keeper. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**EARLY BLOOD TURNIP**—A standard medium early variety of excellent quality, also good for summer and fall use. The flesh is deep red, zoned with lighter

shade; sweet, crisp and tender; nearly round. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

**SWISS CHARD OR SPINACH BEET**—No other garden vegetable will produce more nutritious food from a small space than Swiss Chard. Of rapid growth. The foliage and leaf-stalks used same as asparagus or spinach. Pkt., 5c; oz., 15c; ¼ lb., 25c; lb., 75c, postpaid.

**LARGE-RIBBED WHITE**—Large, smooth leaves of thick texture grown mostly for the heavy main ribs, which are prepared like Asparagus. The green succulent foliage is used like Spinach. An old standard variety which still is grown also quite extensively for its pearly white stalks. Pkt., 5c; oz., 15c; 4 oz., 25c; lb., 75c, postpaid.

## Mangel Wurzel Beets

**GIANT FEEDING SUGAR OR HALF SUGAR MANGEL**—A beet which is superior to Mangels for stock feeding purposes, as it is more nutritious, having a large amount of sugar. It is oval in shape and grows partly out of the ground. It is of large size and yields enormous crops. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.

**IMPROVED MAMMOTH LONG RED**—The largest of all the Mangels and the heaviest cropper. Skin is red, flesh white zoned with red. This variety produces a larger amount of good feed than any other beet, and is recommended as superior to all others. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.

## Broccoli

**CALABREZE GREEN SPROUTING**—This is a distinct variety grown by Italian market-gardeners for Italian trade only. The plant forms a large solid head which remains green. After this head is cut off, a number of smooth sprouts develop from the leaf-axes, each sprout terminating in a small head about one inch in diameter. Bunched and sold as a second crop. Sow seed in frames early in spring and market in June and July. Pkt., 5c; oz., 45c; ¼ lb., \$1.35; lb., \$4.00, postpaid.

## Cabbage

**VOLGA, OR RUSSIAN**—A new medium sized sort, with round, solid heads, which are deep through. It is extremely hardy. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75, postpaid.

**RED ROCK**—The largest and surest heading red cabbage, round, solid and dark red, medium to long stem. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.00, postpaid.

**EARLY JERSEY WAKEFIELD**—The most widely known and popular extra early variety. Heads are broad cone shaped and very solid. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

**DRUMHEAD SAVOY**—Heads round, compact and solid; leaves numerous, deep green and coarsely crimped. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75, postpaid.

**EARLY DRUMHEAD**—We recommend this sort for markets that require a very large and deep head. Plant large, with few outside leaves, stem of medium length. A sure heading variety of excellent quality. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

**CHARLESTON WAKEFIELD**—About one week later than Early Jersey Wakefield, but the conical heads are fully one-half larger. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.



Volga or Russian

**STEIN'S EARLY FLAT DUTCH**—An early and excellent type of Early Flat Dutch, with a medium stem. Heads round, flat and solid. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

**COPENHAGEN MARKET**—Very fine; stem short, heads large, round and solid, with few outer leaves of an upright growth. Nearly as early as Jersey Wakefield. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid.

**GLORY OF ENKHUIZEN**—A dependable variety heading right after Copenhagen Market. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid.

**CHINESE CABBAGE (Pe Tsai)**—Sometimes called Celery Cabbage; resembles Cos Lettuce as much as cabbage, though with a decided cabbage flavor. Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$3.50, postpaid.

## Cauliflower

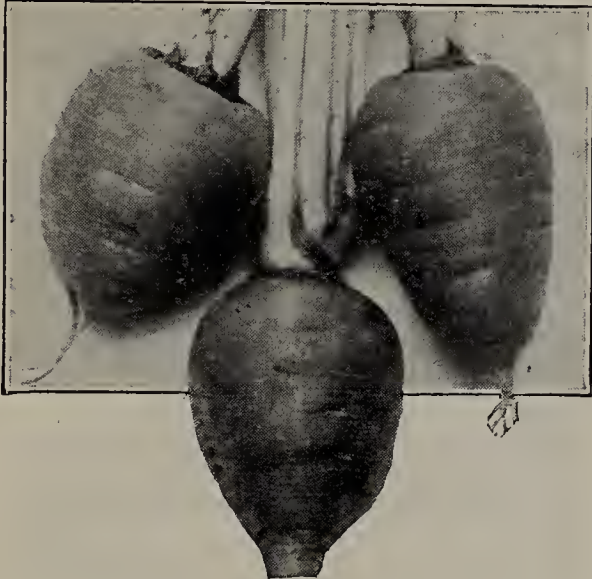


**WHITE WONDER**—We believe this to be the best variety in existence, about 7 days earlier than Early Snowball. It is early, of dwarf compact growth and sure to produce fine heads. Very much depends on the quality of Cauliflower seed. We handle only the best Danish-grown seed from a well known, reputable grower, which we confidently recommend. Pkt., 20c; oz., \$2.00; ¼ lb., \$6.00; lb., \$20.00, postpaid.

**EARLY SNOWBALL**—Popular extra early strain, of dwarf, compact growth. Every plant will make a fine solid head of good size, under favorable circumstances. Pkt., 10c; ¼ oz., 50c; oz., \$2.00; ¼ lb., \$5.00; lb., \$15.00, postpaid.



## Carrots



OXheart

**ORANGE DANVERS HALF LONG**—Broad shouldered, cylindrical, admirable in color. Always a favorite because reliable and attractive in form, color and weight. Most popular sort. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1, postpaid.

**OXHEART or GUERANDE**—One of the most popular and best croppers among the short carrots. The shape is particularly desirable for heavy soil. The true type is about four and one-half inches long and three and one-half inches thick at shoulder. It tapers slightly to the bottom, and is very stump rooted. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00, postpaid.

**CHANTENAY**—One of the best carrots for all purposes. Roots about six inches long, blunt pointed, smooth, fine grained, sweet, a heavy yielder. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

## Celery



Golden Self-Blanching

**GOLDEN SELF-BLANCHING**—The best market variety especially for early summer. The plant is naturally golden-yellow both stem and leaves, but needs to be blanched to make it brittle and fit for table use. Forms a rather small bunch. Pkt., 5c; oz., 35c; ¼ lb., \$1.00, postpaid.

## Collards

**GEORGIA SOUTHERN**—Plant 2 to 3 feet high, forming a cluster of tender undulated leaves at the top of its rather long stem; used as greens. Pkt., 5c; oz., 15c; ¼ lb., 25c; lb., 75c, postpaid.

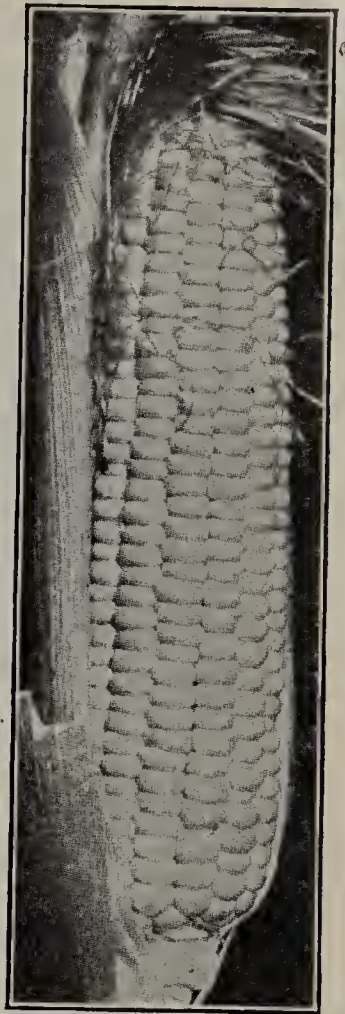
## Sweet Corn

**EXTRA EARLY ADAMS**—This is not a Sugar Corn, but is earlier. The ears are short, 12-rowed, and while in condition for roasting cannot be told from Sugar Corn. It will stand earlier planting than Sweet Corn and is a favorite wherever worms work badly on early corn. Pkt., 10c; lb., 25c, postpaid.

**GOLDEN BANTAM**—Early; golden yellow in color and of highest quality. Ears 6 to 7 inches long, 8-rowed, bearing from 2 to 4 ears to a stalk. Pkt., 10c; lb., 30c, postpaid.

**COUNTRY GENTLEMAN**—An especially fine quality corn, cob small, white and densely covered with long slender white grains without row formation. Pkt., 10c; lb., 30c, postpaid.

**TRUCKERS FAVORITE**—A splendid early white corn, coming in directly after Adams Early but much larger. Has a deep white soft grain. Pkt., 10c; lb., 25c, postpaid.



Golden Bantam

## VERT

Makes a  
Wonder Garden

## Cucumbers



**EARLY FORTUNE**—Early, good dark color and prolific. Fruits average about 10 inches. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**ARLINGTON WHITE SPINE**—One of the most popular White Spine sorts. The fruits are very uniform, averaging 7 to 8 inches. It is extra early and very prolific. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**EXTRA LONG WHITE SPINE or EVERGREEN**—A fine strain; smooth, frequently 10 inches long; round, handsome, very regular. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.25, postpaid.

**IMPROVED CHICAGO PICKLING**—Meets the most exacting requirements of critical pickle makers. Vines healthy and very productive. Fruit the right size, shape, color and quality. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c, postpaid.

**KIRBY STAY GREEN**—"Kirby" is the earliest of the White Spine type; fruit 7 to 8 inches long, cylindrical in shape. Color a beautiful dark green from stem to blossom end, which is retained longer than any variety we know of. Vigorous grower, enormous yielder, shipping quality unexcelled, and always commands the highest market price. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

**IMPROVED EARLY WHITE SPINE**—Vines vigorous, fruiting early and abundantly. Fruit good-sized, straight and smooth. Splendid for table use and especially desirable for pickles. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**IMPROVED LONG GREEN**—Uniform in size, straight, smooth, and deep green in color. A great favorite for slicing. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.



## Egg Plant

**BLACK BEAUTY**—Rich dark purple, large and symmetrical, maturing a little earlier than our Improved Large Purple, but usually not quite as large. Very desirable for the market, as the fruit holds its color for a long time. Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.15; lb., \$3.50, postpaid.

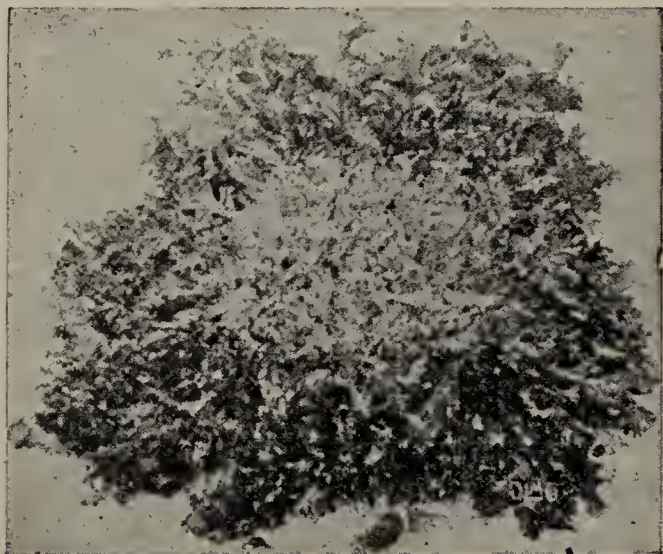


Black Beauty

**IMPROVED LARGE PURPLE (Spineless)**—This variety is a genuine favorite both for market and home garden. The plant is spineless, large and spreading, with light green foliage. It usually produces 4 to 6 large, oval fruits of a splendid dark purple color. The vigor and productiveness and fine quality of the fruit makes it a most profitable variety for market gardening. Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.15; lb., \$3.50, postpaid.

**FLORIDA HIGH BUSH**—A wonderful shipping variety and a good keeper. Of strong, upright growth, holding its fruit well above the ground. The fruits are similar in form and size to the New York Purple though not so dark in color, and more club-shaped. Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.15; lb., \$3.50, postpaid.

## Endive



Ever White Curled

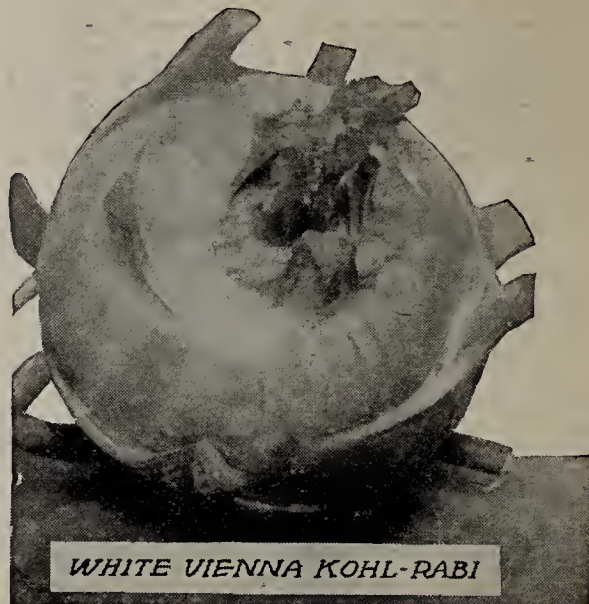
**LARGE GREEN CURLED**—Has very curly leaves, the mid-ribs being white and whitish, and the outer edges very much indented and crested. A very attractive plant and one of the best varieties. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 30c; lb., 90c, postpaid.

**EVER WHITE CURLED**—The plants are moderately dense, with divided leaves, which are very light yellowish green in color, even the outer ones being very light. This variety blanches readily to an attractive creamy white. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

## Kale

**DWARF CURLED SCOTCH**—A finely curled, spreading low growing variety, very hardy and much used for greens. This sort, sometimes called "Norfolk", is grown extensively in the South for shipment, and is largely planted for the home garden. The leaves are long and attractive bright green. This sort is often used for garnishing. Pkt., 5c; oz., 8c;  $\frac{1}{4}$  lb., 30c; lb., 90c, postpaid.

## Kohl Rabi



WHITE VIENNA KOHL-RABI

**EARLY WHITE VIENNA**—A turnip-like bulb, formed above ground, combining somewhat the flavor of cabbage and turnips. The bulb is large enough to be used in 10 to 12 weeks from time of sowing, and is most tender and deliciously flavored before fully matured. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.75, postpaid.

**LARGE GREEN**—This sort is also called Large White. It is hardy, quite late, and used for feeding stock. Bulbs large, weighing 8 to 10 pounds when fully grown; whitish green in color, leaves large and very numerous. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50, postpaid.

## Lettuce

**EARLY PRIZE HEAD**—Forms a mammoth plant, in which even the outer leaves are crisp and tender; color bright green tinted with brownish red. It is of superb flavor and very hardy. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

**ICEBERG**—A large crisp lettuce, always tender. Iceberg stands hot weather remarkably. Give each head 14 inches in row. The color is light green lightly tinged with brown. Try this either for home or market garden. A little larger than Los Angeles and similar. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.10, postpaid.

**NEW CHICKEN LETTUCE**—Here is a genuine Lettuce which will yield as much or more chicken or rabbit feed as any "greens" plant. When once cut it starts to grow again. The leaves can be pulled off each stem like a kale. Chicken Lettuce does not make a head, but sends up a stout stalk 3 or 4 feet high, just loaded with leaves. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.10, postpaid.



Satex Special New York

**SATEX SPECIAL NEW YORK**—(The standard head Lettuce grown so largely in California and misnamed by the produce trade as Iceberg.) Produces immense heads as solid as a cabbage. The interior is beautifully blanched, creamy-white, crisp, delicious and very tender. It is a very strong, robust growing variety. The outer leaves are attractive deep green, broad, frilled at edge. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50, opstpaid.



## Lettuce—Cont.

**HANSON**—A fine large-heading variety. Leaves curled on the edges, light yellowish-green in color. The head is crisp and brittle and flavor excellent. Stands warm weather extremely well. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.00, postpaid.

**BIG BOSTON—50 Days.** A popular market variety used largely in the South to grow winter Lettuce for the northern markets. A light-green cabbage variety, slightly tinged with brown in the head. Has a fine golden buttery head. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

**COS**—Forms oblong heads of large size. Considered by many as superior to any other kind. An entire distinct type of Lettuce. Sometimes called "Romaine Celery Lettuce." Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

## Mustard



Large Smooth-Leaved

**LARGE SMOOTH-LEAVED—30 Days.** An excellent sort with very large, light green, plain or comparatively smooth leaves, borne well above the ground. This sort is preferred by many, as it is more easily prepared for the table than the rougher-leaved varieties. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 60c, postpaid.

**SOUTHERN GIANT CURLED—30 Days.** Leaves are large, light green with tinge of yellow, much crimped and frilled at edges. Plant is upright and slightly spreading in growth. This variety is highly esteemed in the South for the market, as well as for the home garden on account of its vigorous growth, hardiness and good quality. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 60c, postpaid.

**CHINESE**—Leaves twice the size of White English; sweet and pungent. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 60c; postpaid.

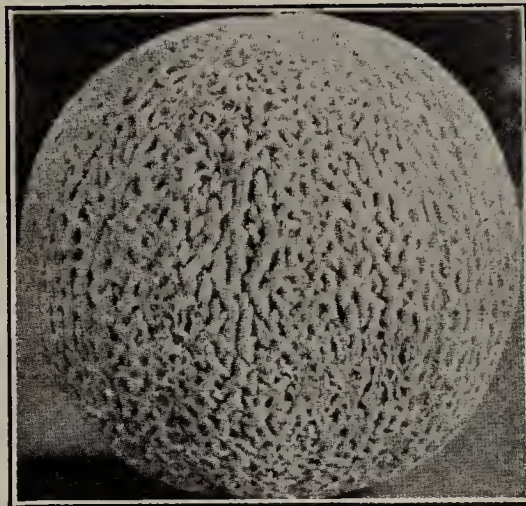
**JAPANESE MUSTARD-SPINACH**—Offered by some dealers in the South as TENDERGREEN. A quick growing vegetable of Oriental origin. In Japan it takes the place of Spinach, as it remains tender even in dry weather. It is virtually an all season plant. Withstands extreme summer heat, also resistant to cold weather. The large, oblong leaves are dark green in color with a very small center rib. The leaves are cooked and prepared for table the same as Spinach and Turnip or Mustard Greens. It compares favorably to these greens in eating qualities. Does not make roots like Turnips; only small thin roots, about 2 or 3 inches in length. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.

## Muskmelon

**ROCKY FORD or NETTED GEM**—The most largely cultivated variety in use. Grown in great quantities in Colorado. Fruit is slightly oval, finely netted and slightly ribbed. Flesh thick, green, very sweet and of fine quality and high flavor. Pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00, postpaid.

**BURRELL'S SUPERFECTO**—A Muskmelon that has become very popular in the last few years. An almost round, heavily netted, slightly ribbed melon. A good shipper. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

Select Seed—1-lb. sealed bag, \$1.60, postpaid.



Superfecto

**HONEY DEW**—The delicious honey-like flavor of this new melon has met with instantaneous public favor and created a sensation wherever used. The fruit is of large size, weighing 8 to 10 pounds each. The rind is perfectly smooth and cream colored. The flesh is from  $1\frac{1}{2}$  to 2 inches thick, light green in color, very sweet and juicy. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50, postpaid.

**CASABA-GOLDEN BEAUTY**—Golden Beauty is bright yellow, about globular, with wrinkled skin, slightly pointed at stem end. The fruits are about 6 to 8 inches in diameter. The flesh is pure white and very thick. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.75, postpaid.

**BURRELL'S GEM**—An excellent small melon of the Netted Gem Type; somewhat later than that variety and a fourth larger; fruit oblong, distinctly but not deeply ribbed and well netted; flesh deep salmon, of fine quality. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

**POLLOCK'S No. 25**—Best described as a salmon fleshed Rocky Ford, being identical in every way except color of flesh. It is rapidly superseding the green fleshed variety in the large melon-growing districts of the South and West. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

## Watermelon

**GYPSY or GEORGIA RATTLESNAKE**—The melon is long, smooth, distinctly striped with light, mottled and wavy green stripes. Flesh bright scarlet and very sugary. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.

**HALBERT'S HONEY**—Fully equal to Kleckley's Sweet, which it resembles. It is more even in outline, is blunter at the end, and the skin is of a richer, darker color. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.



New Wonder

**WONDER MELON**—Here is a watermelon that every grower in the South will plant sooner or later. In quality of flavor there is nothing that will compare with it. A large and long melon resembling the Tom Watson. The rind is rather thin, but tough, cutting a big red heart of the finest melon meat you have ever tasted. White seed, with few to the melon. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.



## Watermelon-Cont.

**CUT RED TOM WATSON**—Without a doubt the finest grade of Tom Watson seed ever offered to the grower. The name represents everything that it stands for. The seed has been selected from only the finest and truest-to-type melons and only then from those that CUT RED from rind to rind. Regardless of what kind of melon you have been planting, it will pay you big dividends to plant some of this splendid seed. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid.

**TOM WATSON SPECIAL**—85 Days. Long, dark green. More tracery on skin than Kleckley Sweet, and longer. Fine variety, cream-brown seed, flesh deep red, finest flavor, no core. Often weighs from 50 to 60 pounds to the melon. One of the most popular shipping melons on the market. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**STONE MOUNTAIN**—A new round watermelon showing slight ribs or lobes like a cantelonne. The color of the smooth skin is light green. The flesh is a uniform beautiful DEEP CRIMSON without any white hearts or stringiness. The average fruit weighs about 45 pounds. Not suited for distance shipping. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**DALE**—This splendid large melon is oblong in shape. The tough skin is a dark green color irregularly striped with lighter green. Flesh is dark red in color, fine grained, sweet and luscious. White seed. An excellent shipper. You will find our strain of this excellent melon to be the best. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**DALE (Special)**—This seed is selected from the finest melons in the field. Every melon being of very heavy weight and true to type. We can recommend this melon to any one desiring the best in Dale Watermelon Seed. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

**KLECKLEY SWEET**—80 Days. A very desirable variety for the home garden or nearby markets. Fruit medium-sized, oval and skin dark green, flesh bright red and sweet. Skin is brittle. It is the very sweet, honey-like flavor that makes it especially distinct from all other varieties. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**FLORIDA FAVORITE**—Fruit long, dark green, mottled and striped with a lighter shade. Rind thin but firm. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**ALABAMA SWEET**—80 Days. A very large, long melon of excellent quality; popular in the South, where it is grown extensively for shipping. The color is rather deep green, with dark, irregular striping. The rind is thin, but very tough. The flesh is bright red, fine grained and sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**IRISH GREY**—New. A valuable melon, prodneing more melons under any condition than any other variety. Also a fine eating melon, and a grand shipper. The red flesh is very sweet and free from stringiness. The rind will not sunburn and will keep in excellent condition long after picking. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**CITRON FOR PRESERVING**—90 Days. A round, light and dark-striped melon, meat greenish-white, used for preserving only. Seed red and small. Tough rind. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**IMPROVED KLONDYKE**—Among the leading shippers in all the melon growing districts of California this wonderful new melon has rightfully earned the reputation of being the best quality shipping melon in existence, and is being grown with equal success in other States regardless of climatic conditions. The melons are oblong in shape, and weigh from 20 to 35 pounds each. The rind is thin but tough, with an attractive deep green color. The flesh of the melon is a rich red. It is without doubt one of the sweetest melons grown. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50, postpaid.



**HOTKAPS  
FOR BIGGER EARLIER CROPS !**  
(See page 19 for details)

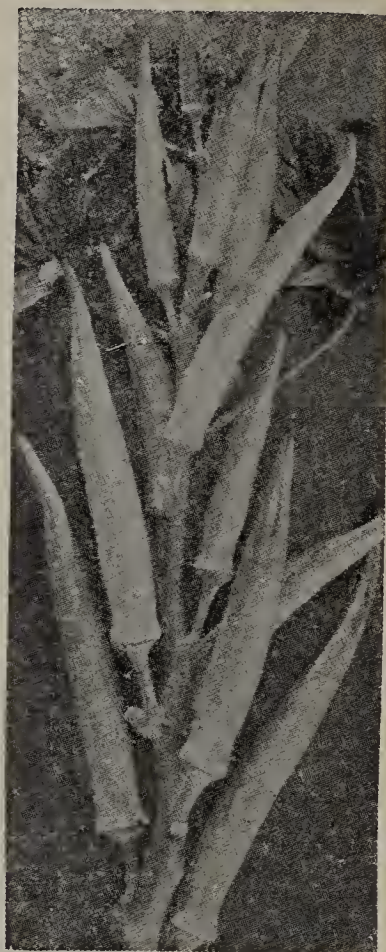
Per 1000.....Only \$9.75

## Okra or Gumbo

**Culture**—One ounce will sow 50 feet of drill. Sow from March to July, one inch deep in rows four feet apart for the tall, and three feet apart for the dwarf; thin out to a foot apart.

**WHITE VELVET**—Round, white, smooth pods of extra large size produced in great abundance. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.

**PERKINS MAMMOTH LONG POD**—This variety is about three feet high, very early and productive. The pods are deep green, very long, slender, slightly corrugated, very tender and of good quality. This is a desirable market as well as home garden sort. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.



White Velvet

## Fertilize- It Pays

(See page 20)

## Onion Seed



Crystal White Wax

**WHITE OR YELLOW BERMUDA**—This is the standard variety, and is grown very largely among the large Texas onion growers. It is more hardy, less affected by disease, and more prolific than the other onions. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.00, postpaid.

**CRYSTAL WHITE WAX**—This is the waxy white onion seen in our market in the early spring, and it is one of the most beautiful onions on the market. It is absolutely pure white, of the finest flavor, and will always command a premium on the market. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.00, postpaid.

## Onion Sets

**Culture**—Plant 4 inches apart in rows half an inch deep, and 1 foot between the rows, when cultivated by hand. Do not cover the sets entirely. All varieties can be set out in the fall as well as in the spring. One pound plants a 60 foot row.

Red Bottom Sets.....	Lb., 30c; Bu., \$3.50
White Bottom Sets.....	Lb., 30c; Bu., 3.75
Yellow Bottom Sets.....	Lb.,30c; Bu., 3.50

Pounds postpaid, bushels f.o.b. San Antonio.





## Onion Plants

CRYSTAL WHITE WAX or YELLOW BERMUDA		
100	-----	Postpaid \$0.25
500	-----	Postpaid .70
1000	-----	Postpaid 1.15

Onion Plants f.o.b. Encinal,  
Texas.

1000	-----	Per M \$0.75
6000	-----	Per M .60

Write for larger quantity prices.

## Tomato Plants

Varieties—John Baer, Earliana,  
June Pink, McGee, and Marglobe.

## Cabbage Plants

Varieties—Early Jersey Wakefield, Charleston Wake-  
field, Stein's Flat Dutch and Copenhagen Market.

100	-----	Postpaid \$0.55
500	-----	Postpaid 1.35
1000	-----	Postpaid 2.10

Cabbage and Tomato Plants f.o.b. Encinal, Texas.		
1000	-----	Per M \$1.25
5000	-----	Per M 1.15

## Sweet Pepper Plants

Varieties—Ruby King, Ruby Giant, Worldbeater, and  
Chinese Giant.

## Hot Pepper Plants

Varieties—Long Red Cayenne, and Red Chili.

## Egg Plants

Variety—Black Beauty.

100	-----	Postpaid \$0.60
500	-----	Postpaid 1.90
1000	-----	Postpaid 3.25
Pepper and Egg Plants f.o.b. Encinal, Texas.		
1000	-----	Per M \$2.50
5000	-----	Per M 2.40

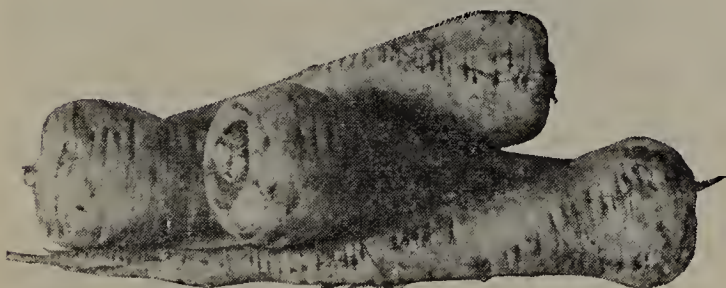
No plants shipped C. O. D.

## Parsley

**PLAIN or SINGLE**—A very hardy variety. The leaves  
are flat and not curled. The best flavored variety.  
Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**CHAMPION MOSS CURLED**—A very finely curled  
green and very ornamental variety. Pkt., 5c; oz., 10c;  
¼ lb., 35c; lb., \$1.00, postpaid.

## Parsnip



Hollow Crown

**HOLLOW CROWN**—An excellent variety for the table.  
The roots are long, with smooth, white skin, uniform in  
shape, tender and of the best quality. The variety is  
easily distinguished by the leaves growing from the  
depression on top of crown of the root. Pkt., 5c; oz., 10c;  
¼ lb., 20c; lb., 65c, postpaid.

## Garden Peas

**FIRST AND BEST**—One of the earliest tall varieties,  
with smooth, round peas, which ripens almost at one  
time. Grows 2 to 2½ feet high, seed yellow-white, pods  
straight, short and well filled. Quality best of the  
smooth-seeded early varieties. Pkt., 10c; lb., 30c, post-  
paid; 10 lbs., \$1.50, not postpaid.

**THOMAS LAXTON**—Excepting color of foliage and  
pods, in growth this is identical with the Gradus, 2 or 3  
days late, but much more productive. Pkt., 10c; lb., 35c,  
postpaid; 10 lbs., \$1.75, not postpaid.

**WHITE MARROWFAT**—A very heavy yielding late  
variety. Pods large and well filled. The dry peas are of  
large size and excellent for cooking. Pkt., 10c; lb., 30c,  
postpaid.

**LANDRETH'S EXTRA EARLY**—A critical gardener  
wants the best strain as respect earliness, size of pod,  
flavor, uniformity of ripening, vigor and uniformity in  
habit of the plant. All these desirable qualities can be  
found in this pea. This type will produce peas fit for  
table in 44 to 50 days, according to soil and climatic  
conditions of the season of their growth. Pkt., 10c; lb.,  
30c, postpaid; 10 lbs., \$1.50, not postpaid.

**BLISS EVERBEARING**—An old standard late, main  
crop variety. Height 3 feet. Vine and foliage sturdy and  
strong, dark green; pods usually in pairs, medium  
green 3 inches long, straight and pointed, containing  
4 to 5 light green peas of good quality; matures follow-  
ing Telephone. Pkt., 10c; lb., 35c, postpaid; 10 lbs.,  
\$1.75, not postpaid.

**LAXTONIAN**—A dwarf pea with large handsome pods.  
It is slightly earlier than Gradus, maturing about the  
same time as Tho-  
mas Laxton. Vines  
medium dark green  
and medium heavy  
foliage. Pods 3½ to  
4 inches long slight-  
ly curved. Will bear  
more abundantly at  
top of vines, making  
it easy to pick, very  
heavy yielder, alto-  
gether a fine pea  
for private market  
gardeners. Pkt., 10c;  
lb., 35c, postpaid, 10  
lbs., \$2.00, not post-  
paid.

**ALASKA**—A blue  
pea of excellent  
quality. The earliest  
of all the blue sorts.  
A desirable early  
pea for market gar-  
deners, growing  
from 2 to 2½ feet,  
and very productive.  
Pkt., 10c; lb., 30c,  
postpaid; 10 lbs.,  
\$1.50, not postpaid.

**CANADA FIELD**  
—Seed small, white;  
for field culture  
only. Height 4 ft.

Vine moderately stout and medium green; pods light  
green, 2¼ inches long, square ended, six small, light  
green peas in pod; matures with Telephone. Pkt., 10c;  
lb., 25c, postpaid.



Thomas Laxton

## Sweet Pepper

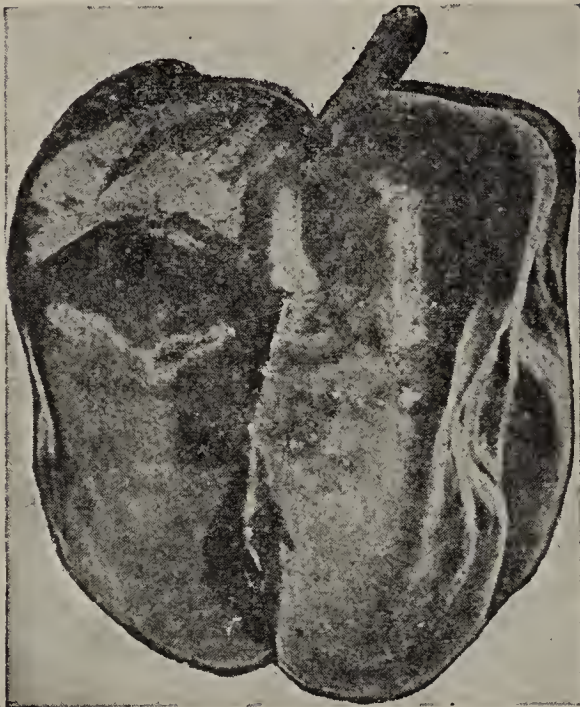
**WORLDBEATER**—This is without doubt, the finest  
introduction in peppers in ages. It is a cross between  
Chinese Giant and Ruby King, having the shape of the  
Ruby King, except that it is broader at the pointed end  
and almost the size of the Chinese Giant. Pkt., 5c;  
oz., 35c; ¼ lb., \$1.00; lb., \$3.00, postpaid.

**CHINESE GIANT**—Plant dwarf, fruit of mammoth  
size, very broad, but rather short. It is very late and a  
rather shy yielder. Popular on account of its large size  
and mild flavor. Our stock is pure and is as good as can  
be obtained. Pkt., 5c; oz., 55c; ¼ lb., \$1.65; lb., \$5.00,  
postpaid.

**PIMIENTO or PERFECTION**—A medium early, pro-  
lific, perfectly mild variety with extremely thick flesh.  
On account of its thick flesh it will hold up for a long  
time; an excellent sort for canning whole. Pkt., 5c;  
oz., 35c; ¼ lb., \$1.00; lb., \$3.00, postpaid.



## Sweet Pepper-Cont.



California Wonder

**CALIFORNIA WONDER**—This is a new variety which originated in California. It is one of the largest peppers grown and has remarkably thick and sweet flesh. Of excellent quality, a particularly heavy yielder. Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$4.50, postpaid.

**RUBY KING**—This variety grows to an extraordinary large size. When ripe, a handsome, bright, ruby color; remarkably mild and pleasant to the taste. For stuffing, no other variety can equal it. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; lb., \$3.00, postpaid.

### HOT OR PUNGENT VARIETIES

**RED CHILI**—A rather small, bright red variety, about 2 inches long and pointed. The pods are used in making Chili sauce, and are very pungent and hot. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

**LONG RED CAYENNE**—110 Days. A strong, pungent variety, having well pointed fruit, which is bright scarlet when ripe. A very popular variety. Pkt., 5c; oz., 40c; ¼ lb., \$1.00; lb., \$3.00, postpaid.

## Pumpkin



Cheese

**CHEESE**—65 Days. A very good table variety. Shape flat, like a cheese box; a good keeper. Often 15 inches across the top. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**PIE PUMPKIN**—65 Days. A small round, yellow sort, with fibre pinkish netting. Flesh is thick, sweet and of excellent quality. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**KENTUCKY FIELD**—90 Days. Sometimes called large Cheese. A very large, flattened pumpkin, averaging about 2 feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 65c, postpaid.

**GREEN STRIPED CUSHAW**—70 Days. Fruits very large, white crooked neck. Color, creamy white, irregularly striped or traced with green. Flesh light yellow, very thick, rather coarse but sweet. This sort is very productive and popular in some sections. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00, postpaid.

## Dakota Certified Seed Potatoes



**BLISS TRIUMPH or RED BLISS**—This is the most standard red variety in the Southern States. It is very early and matures quickly. The potatoes are round and uniform in shape, eyes slightly depressed and a beautiful bright red in color. It is very hard, and not susceptible to disease. Peck, 90c, not postpaid.

**IRISH COBBLERS**—This variety is one of the most reliable and popular of the early varieties. It is of handsome creamy-white color and of excellent quality, making it most desirable for the best trade. It is a vigorous grower, ripens uniformly and a good keeper; in short, one of the best all-around early potatoes on the market. Peck, 90c, not postpaid.

## Radish

**EARLY SCARLET TURNIP, WHITE TIPPED**—One of the most popular and attractive short varieties. It is globe-shaped, bright rose carmine with bottom and tip clear white. Stems and leaves are small. Very valuable for forcing, as well as for the garden and market. Pkt., 5c; oz., 10c; 2 ozs., 15c; ¼ lb., 20c; lb., 60c, postpaid.

**FRENCH BREAKFAST**—A quick growing, small olive-shaped radish about 1½ inches long by five-eighths to three-fourths of an inch in diameter when fully grown. The color is beautiful deep rose scarlet except a little clear white about the tip. This is an excellent variety for planting outdoors for the home garden. Its small tops and earliness make it also desirable for growing under glass. Pkt., 5c; oz., 10c; 2 ozs., 15c; ¼ lb., 20c; lb., 60c, postpaid.



Vick's Scarlet Globe

**VICK'S SCARLET GLOBE**—The most popular shipping variety. The roots are slightly olive-shaped and are a rich, bright scarlet in color. The flesh is white, crisp and tender. Tops are of nice size, about 6 inches or more; easy to bunch. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**LONG BLACK SPANISH**—70 Days. One of the latest and hardest long garden radishes; especially adapted for winter use. The roots are long, thick, almost black, somewhat wrinkled. The flesh is white, of firm texture, decidedly pungent, but well flavored. The roots when matured are usually 7 to 9 inches long by 2 or 3 inches in diameter at the thickest part. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.



## Radish-Cont.

**SCARLET CHINA**—One of the best of the winter varieties. The roots are cylindrical, or largest near the bottom, stump rooted or blunt at both ends. The skin is smooth and of a bright deep rose color. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

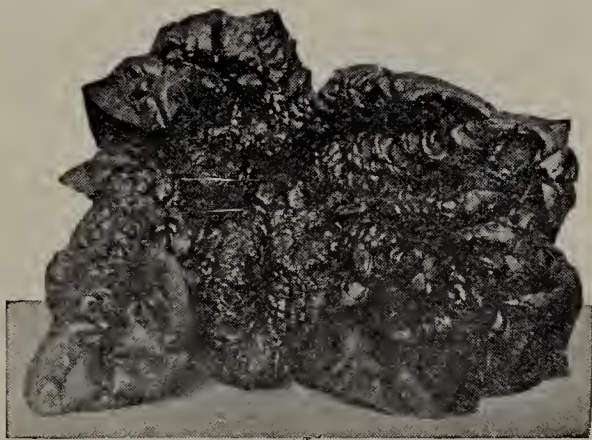
**LONG WHITE VIENNA**—A very fine, long, white variety; quick growing and ready for use when very young. The flavor is mild and sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**CHARTIER or SHEPHARD RADISH**—A variety of Long Scarlet. Deep crimson at top, almost white at bottom. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**WONDERFUL HALF-LONG SCARLET**—23 Days. So rapid in growth as to develop perfectly in 23 days. Grows about 2½ inches long, contrasting from a broad shoulder to a sharp point; very symmetrical and uniform in shape; color, a bright scarlet, and altogether a gem. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

## Spinach

**BLOOMSDALE**—40 Days. As an autumn sort it is superior to all others; but in the spring is inclined to shoot early. The leaves are twisted and bloated, giving them, when ready for shipment, an elasticity adapting them for transportation to long distances and at the same time giving the crop large measuring qualities. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c, postpaid. 10 lbs., \$2.00, not postpaid.



**NEW LONG STANDING BLOOMSDALE**—Has all the good points of the above, in addition, it will withstand the summer heat and does not go to seed. Pkt., 5c; ¼ lb., 20c; lb., 40c, postpaid. 10 lbs., \$2.75, not postpaid.

**BROAD-LEAVED FLANDERS**—One of the most vigorous and strong growing varieties. The leaves are nearly round, uniformly deep green, quite thick and slightly crimped in the center. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c, postpaid; 10 lbs., \$1.75, not postpaid.

## Squash



EARLY WHITE BUSH SCALLOP SQUASH

**EARLY WHITE BUSH SCALLOP**—50 Days. A very early variety, with flat, creamy white scalloped squashes 4 to 6 inches in diameter. The vine is bush in habit and rather dwarf. This variety is the common "patty pan" squash. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**MAMMOTH WHITE BUSH SCALLOP**—60 Days. An early maturing, somewhat flattened, scalloped bush squash of largest size, and the handsomest of the summer varieties for home garden and market. The vines are vigorous and productive. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**YELLOW CROOKNECK**—The well known summer variety. Fruit long, skin very fine and tender when young. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**COCOZELLE, ITALIAN VEGETABLE MARROW**—Oblong in shape, shell dark green, Cook and serve the same as other Squash. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid.

## Tomato

**EARLIANA**—90 Days. Very early. Habit of vine dwarf and compact. Fruit borne in clusters of from 10 to 15 in a bunch. A remarkable variety and one which is in good favor with market gardeners. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; lb., \$3.00, postpaid.

**DWARF CHAMPION**—100 Days. A dwarf variety sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising. Fruit medium-sized, smooth, uniform and of a purplish-carmine color. Pkt., 5c; oz., 45c; ¼ lb., \$1.35; lb., \$4.00, postpaid.

**DWARF STONE**—Claimed to be the largest dwarf tomato known, almost double in size of Dwarf Champion, and is similar in habits of growth; very popular with market gardeners and home canners. Pkt., 10c; oz., 45c; ¼ lb., \$1.35; lb., \$4.00, postpaid.



John Baer

**EARLY DETROIT**—A new tomato of merit; fruit smooth, uniform, nearly globe-shaped, firm and of fine quality; color purplish-pink, season early. Is a fine shipping variety. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

**NORTON**—A main-crop, scarlet-fruited variety. Very similar to Stone, of which it is a selection. Introduced by the U. S. Dept. of Agriculture for wilt resistance. Fruits are of medium size, smooth, and solid. Norton bears well and gives a good crop. Vines make a medium to heavy growth. One of the best long distance shippers. Pkt., 5c; oz., 30c; ¼ lb., 85c; lb., \$2.50, postpaid.

**GULF STATE MARKET TOMATO**—This globe-shaped purplish-pink tomato was developed from Early Detroit and is as early as that variety. It is said to be especially adapted to the Gulf States and California. The fruits are large, showing little depression around the stem, and free from cracks. Pkt., 5c; oz., 40c; ¼ lb., \$1.25; lb., \$3.75, postpaid.

**CHALKS'S EARLY JEWEL**—95 Days. A wonderful new variety in that it is early and bears continuously throughout the season. The fruit is large, smooth, uniform and well ripened clear to the stem, and the flavor and quality are especially fine. Color bright scarlet. Pkt., 5c; oz., 30c; ¼ lb., 90c; lb., \$2.50, postpaid.

**AVON EARLY TOMATO**—This is a scarlet fruited variety of the very earliest class. It bears as quickly as Earliana, produces fruits of good size, round or slightly flattened, smooth and free from cracks, and of fine quality. It is very productive and its season is longer than other first earliest. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

**ARMOUR'S FERTILIZERS PAY**—See page 20



## Tomato-Cont.

**KARGER'S ROOT ROT RESISTANT**—Many gardeners have been unable to grow tomatoes on account of root-rot in the soil. This new variety has been developed by Mr. Geo. Karger and has proven highly resistant to root-rot. It is a strong vigorous grower with sturdy vines producing an enormous crop of large handsome fruit. The tomatoes are a rich scarlet red color, perfectly smooth, of even color, firm and solid. The skin is smooth and shiny, free from cracks or other irregularities. Has a delicious sub-acid and tasty flavor. Pkt., containing about 400 seeds, 25c, postpaid.

**CLARK'S SPECIAL EARLY**—A new excellent variety of tomato, which is now being used very extensively in the Rio Grande Valley section for shipping purposes. It is an early scarlet fruited variety, uniform in shape and carries well. Inclined to be globe-shaped and bears for a very long period. Truly an excellent variety for market gardeners. Pkt., 5c; oz., 40c; ¼ lb., \$1.25; lb., \$3.75, postpaid.



KARGER'S ROOT ROT RESISTANT

**JUNE PINK**—95 Days. A very early and productive pink form of Earliana. The best early pink on the market. Fruit solid and borne in profusion. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

**STONE**—115 Days. The best main-crop tomato for all purposes, and largely used for canning. Vine tall and prolific. Fruit smooth, large and uniform. Color bright scarlet. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75, postpaid.

## Turnip

**PURPLE WHITE TOP GLOBE**—An early medium-sized, globular shaped turnip of good quality for either table or stock. A heavy producer and good keeper. The flesh is white and of good eating quality while young. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

**WHITE EGG**—A sort forming root the shape and size of egg in an incredibly short period after sowing. Flesh always palatable. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

**POMERANIAN WHITE GLOBE**—Large variety, used largely for stock. Is globe-shaped, large leaves, hardy. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

**EXTRA EARLY PURPLE-TOP MILAN**—An excellent medium-size turnip, almost as early as White Milan, smooth white surface, purple top, flat shape, white flesh—its growth is very uniform and quality the best. Pkt., 10c; oz., 20c; ¼ lb., 35c; lb., \$1.00, postpaid.

**COWHORN TURNIP**—This turnip grows very long, often 12 inches or more, and 2 inches in diameter and nearly half above ground. It is very popular for stock feeding, and is clear white except a little shade of green at the top. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 75c, postpaid.

**YELLOW ABERDEEN**—A large-sized, round, late maturing, long keeping, yellow fleshed turnip. It is hardy, productive, and valuable for stock feeding. The roots are yellow with purple top. The flesh is pale yellow, firm, tender and sweet. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.



Early White Flat Dutch

**EARLY WHITE FLAT DUTCH**—Strap Leaved. A medium-sized flat variety, clear white, early and of fine flavor. A fine table variety. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

**LOUSE RESISTANT**—A splendid white globe turnip which grows well in hot and dry weather. Lice do not seem to attack this variety as quickly as other turnip greens. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**PURPLE-TOP FLAT DUTCH**—Strap Leaved. An early flat variety. White with purple top. It matures quickly and has fine grained flesh of fine flavor. It forms early a fine root, even in shape and of the best quality. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

## Tomato-Cont.

**EARLY ACME**—The plants are of strong and vigorous growth; very productive fruit of medium size, perfect form, round, slightly depressed at the ends, very smooth (never rough); color a glossy red, with purplish tinge; ripens all over and through at the same time. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

**BONNY BEST**—Fruits of beautiful shape and color; a good variety for early market and home use. Scarlet fruit with vigorous vine. Crops ripen uniformly. Pkt., 5c; oz., 45c; ¼ lb., \$1.30; lb., \$3.50, postpaid.

**BREAK O' DAY**—Developed by F. J. Pritchard of Washington, D. C. A new wilt resistant tomato that is nearly as early as Earliana and as productive as Marglobe. Its fruits are large, smooth, meaty, red and globular, very similar to Marglobe but usually larger, used whole for salads or stuffed. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$4.00, postpaid.

**MARGLOBE**—Tested repeatedly and approved by the U. S. Dept. of Agriculture. Is sure to be planted extensively before long. This is what the Department says about it, "Very productive, second early variety, Fruits large, smooth, meaty, red, globular. Highly resistant to wilt and somewhat resistant to blights." Pkt., 5c; oz., 35c; ¼ lb., \$1.00, lb., \$3.00, postpaid.

**JOHN BAER**—An early variety, maturing with Bonny Best, producing fruit equally as good as Chalk's Jewel. Color, bright scarlet; good size and smooth. The seed we offer was grown from the introducer's stock. Pkt., 5c; oz., 30; ¼ lb., 85c; lb., \$2.50, postpaid.

**McGEE**—Well known in this state on account of its heavy-bearing qualities. It will yield splendid crops when all other varieties fail. Bright crimson, solid and good flavor. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; lb., \$3.00, postpaid.

**YELLOW PLUM**—95 Days. A small-fruited, bright golden yellow variety, very attractive; for salads or preserves. Pkt., 5c; oz., 60c; ¼ lb., \$1.75, postpaid.

**YELLOW PEAR**—Same as Yellow Plum, except that it is the shape of a pear and a trifle smaller. Pkt., 5c; oz., 60c; ¼ lb., \$1.75, postpaid.

## Rutabaga

**AMERICAN PURPLE TOP or LONG ISLAND**—One of the best and most popular varieties, with yellow flesh. It is yellow below ground, with purple top above, and the leaves are small. A good stock-feeder or table variety. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.



# Satex Flower Seeds

All Flower Seeds Postpaid

**Culture**—Many varieties of flowers are very fine seeded and if sown in the open ground there is great risk that the seeds will be washed away. Others are too tender to start in the open. Such varieties should be started off in cold frames or hot beds or if such are not available you may get along very nicely with a shallow box. Fill the box with a mixture of finely sifted soil, preferable leaf mold and sand, using three parts of soil to one part of sand. Broadcast the seeds thinly over the surface and do not cover more than three to four times the thickness of the seeds. Press soil lightly and keep it moist but not soaked. Place your box in a shady protected place until seeds start to sprout and then gradually get the young seedlings accustomed to the outside temperature and the sun by moving your boxes. When the young plants have reached proper sizes they should be transplanted to permanent location.

Many failures are caused by the seedlings damping off, a condition brought about by overwatering or excessive rains. Up to recently we were rather helpless against this disease, but science has now developed a splendid remedy in "Semesan". By treating your soil or seeds, or both, with Semesan you can practically eliminate that danger. Always keep a small can of Semesan on hand. It is inexpensive and effective. For prices see page 31 of this catalog.

**ANTIRRHINUM or SNAPDRAGON**—Their beautiful colors and fragrance are wonderfully pleasing. Pkt., 5c; oz., 35c.

**ASTERS**—Queen of the annual flowers. One of the best flowers we have for cutting and bedding. They look well either in borders or near foundation of house. Colors are bright and attractive.

	Pkt.	Oz.
Queen of the Market-----	5c	40c
American Branching-----	5c	35c
Globe Quilled-----	5c	30c

**BACHELOR BUTTON**—Called Corn Flower by many people. Mixed colors. Pkt., 5c; oz., 20c.

**BALSAM (Touch-Me-Not)**—The many colored flowers grow along the stem, intermingled with the foliage, makes a most attractive plant.

**CAMELIA FLOWERED**—Double flowers all colors. Covered with white polka dots. Pkt., 5c; oz., 30c.

**ROSE FLOWERED**—Double flowers all colors. Pkt. 5c; oz., 20c.

**CALIFORNIA POPPY**—Color a bright orange yellow and white. Pkt., 5c; oz., 20c.



Pansies

**CALENDULA**—Yellow and orange. Blooms from early summer to frost. Pkt., 5c; oz., 20c.

**CASTOR BEANS (Ricinus)**—The large ornamental variety. Pkt., 5c; oz., 15c.

**CARNATION (Marguerite)**—A half-hardy plant, blooming during the early summer. Fragrant. Double. Colors white and various shades of pink. Pkt., 5c; oz., 75c.

**CHINESE WOOL FLOWER**—Dwarf. Similar to cockscomb bearing small balls of flowers of deep red color. Pkt., 10c; oz., \$1.00.

**CHRYSANTHEMUM**—Large daisy-shaped, blooms with old and beautiful arrangement of colored rings surrounding centers.

	Pkt.	Oz.
White-----	5c	75c
Yellow-----	5c	75c
Mixed-----	5c	25c

**COCKSCOMB (Celosia)**—Dwarf variety. Has beautiful crested head of deep rich red velvet. Pkt., 10c; oz., \$1.50.

**CANDYTUFT**—A splendid border plant bearing clusters of flowers somewhat resembling phlox. Colors, rose, carmine, lavender and white.

**Empress**—(White) pkt., 5c; oz., 25c.

**Mixed**—pkt., 5c; oz., 20c.

**COSMOS**—A tall, feathery, green stalk bearing daisy-like flowers in all shades of lavender, pink, and white. Blooms all summer. Pkt., 5c; oz., 25c.

**CYPRESS VINE**—A very ornamental climber with fine feathery leaves bearing small red and white star-shaped flowers. Pkt. 5c; oz., 25c.



Sweet William

**DAHLI**—As a rule blooms first year from seed. Each plant different. Save bulbs from worthwhile plants. Pkt., 5c; oz., 75c.

**FOUR O'CLOCK**—Used for hedges for large beds for public foundation planting and places. Mixed colors. Pkt., 5c; oz., 15c.

**FORGET-ME-NOT**—A dwarf plant bearing small blue flowers. Pkt., 5c; oz., 60c.

**GLOBE AMARANTH (Bachelor Button)**—Also known as Straw Flower. Color white to crimson, resembling clover blossoms. Pkt., 5c; oz., 50c.

**HOLLYHOCK**—Splendid background for a flower garden and shows up well along the fence. Bearing open rose-shaped flowers. Mixed colors. Pkt., 5c; oz., 35c.

**HYACINTH BEANS**—A rapid climber, blooms and pods are very ornamental. Colors: white, purple or mixed. Pkt., 5c; oz., 15c.

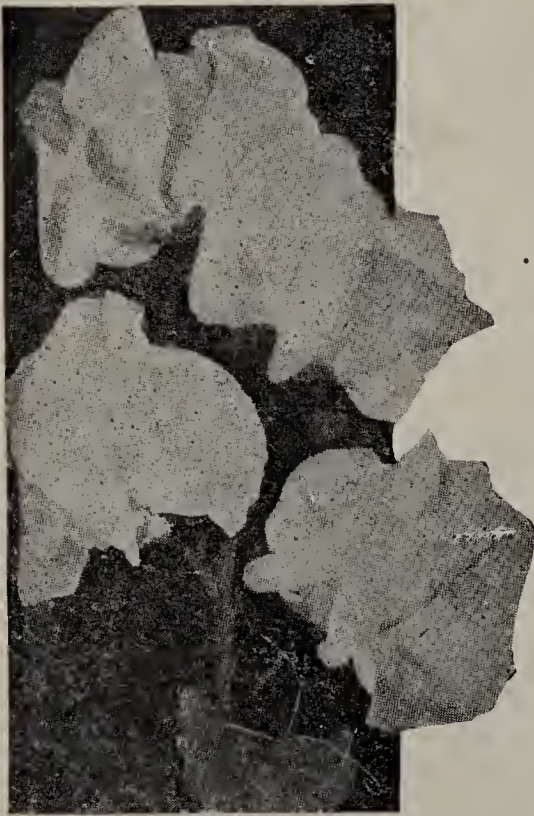
**LARKSPUR**—A tall branching variety bearing flowers in clusters similar to hyacinths. Colors: blue, white pink. Pkt., 5c; oz., 25c.

**MARIGOLD**—A showy plant with a profusion of flowers in brilliant colors of yellow and orange. Pkt., 5c; oz., 30c.

**MIGNONETTE**—Very fragrant. Large flowering. Pkt., 5c; oz., 50c.

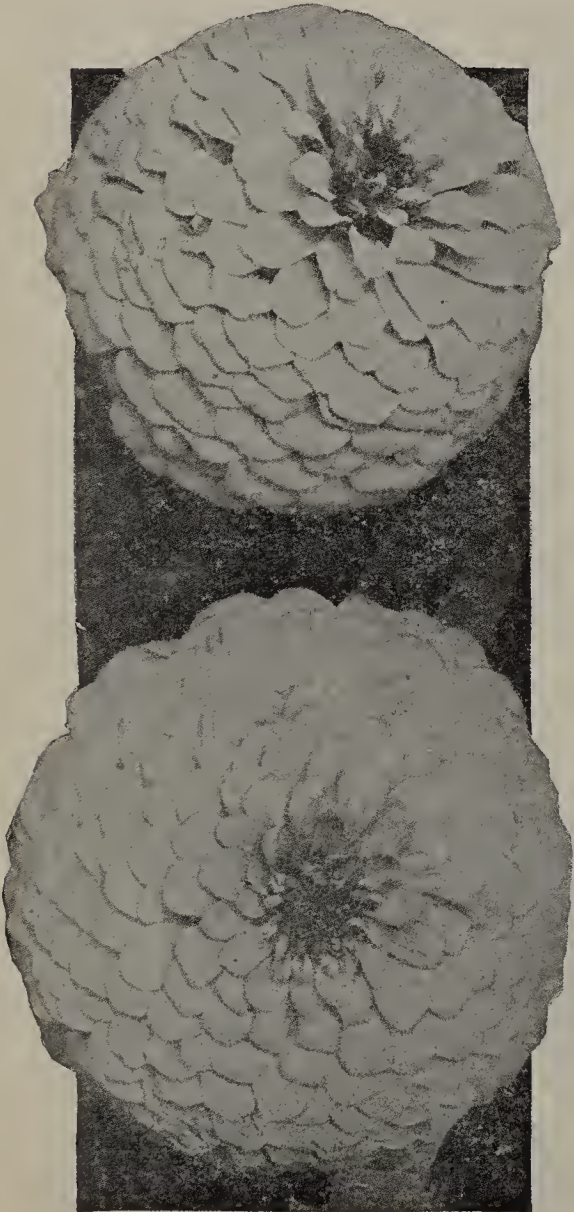
for **BETTER**  
**LAWNS &**  
**GARDENS**  
**USE**  
**ARMOUR'S**  
**VERT**  
The GREEN COLORED PLANT FOOD in the GREEN BAG





Sweet Peas

**PORTULACA (Moss Rose)**—Nothing makes a prettier display than a bed of many hued, brilliant colored Portulacas. Pkt., 5c; oz., 40c.



Zinnia

**MOONFLOWER**—A very rapid climber bearing large white flowers blooming at night. Pkt., 5c; oz., 40c.

**MORNING GLORY (Heavenly Blue)**—A beautiful climber bearing very large blue flowers in great profusion almost hiding foliage. Pkt., 5c; oz., 75c.

**MORNING GLORY (Japanese Mixed)**—A very reliable climber bearing flowers in many variegated colors. Pkt., 5c; oz., 30c.

**NASTURTIUM (Dwarf)**—Used for a border along walls, paths, etc. A constant bloomer and very attractive in color. Pkt., 5c; oz., 10c.

**NASTURTIUM (Tall)**—Used for arbor and trellis decoration. Flowers very rich in colors, striped and spotted with different shades. Pkt., 5c; oz., 10c.

**PANSY**—No description is necessary for this flower, as we all know and love it. Should be in every flower garden.

	<b>Pkt.</b>	<b>Oz.</b>
Giant Trimardeau	10c	\$1.50
Non Plus Ultra	10c	4.00

**PETUNIA**—Their richness of color, duration of bloom and easy culture will always make them popular. Pkt., 5c; oz., 50c.

**PHLOX (Drummond Mixed)**—A very popular annual. The flowers are brilliant and of varied colors, it blooms profusely and continuously and one of the last to succumb to the frost. Pkt., 5c; oz., 75c.

**PINKS**—Splendid large flowers of the most brilliant colors and markings. Constantly in bloom up to frost.

	<b>Pkt.</b>	<b>Oz.</b>
China (Double Mixed)	5c	.35
Hedderwigii (Double Mixed)	5c	1.00

**POPPY**—Colors very attractive and showy.

	<b>Pkt.</b>	<b>Oz.</b>
Carnation Flowered	5c	.15
Shirley Flowered	5c	.25

**SALVIA (Splendens)**—Flowering sage, is a very ornamental plant, flowering in spikes of a rich red color. Pkt., 10c; oz., \$1.25.

**STOCKS (Ten Weeks Mixed)**—Plants grow about one foot high, making a compact bush covered with splendid spikes of most brilliant colors and varieties. Pkt., 10c; oz., \$1.25.

**SWEET WILLIAM**—A very popular flower forming large trusses of blossoms in a great variety of eyed and variegated colors.

	<b>Pkt.</b>	<b>Oz.</b>
Single	5c	.25
Double	5c	.40

**VERBENA**—The most popular bedding plant. Grown from seed the plants bloom more profusely than from cuttings. Pkt., 5c; oz., 60c.

**VINCA (Periwinkle)**—An attractive and ornamental bedding plant. Splendid for borders.

	<b>Pkt.</b>	<b>Oz.</b>
White	10c	1.25
Rose	10c	1.25
Mixed	10c	1.25

**SUPERB SPENCER SWEET PEAS**—Spencer variety (Mixed) Sweet Peas will grow and blossom in any good garden soil. For best success sow early, as early as the ground can be worked in the spring. Regardless of the weather sow early, in trenches 4 inches deep; cover about 1 inch with soil, and fill the trench as plants grow. Set the support early and hoe often. The Spencer mixture which we offer contains a beautiful mixture of colors and of large, gracefully frilled blossoms. Pkt., 5c; oz., 20c; lb., \$1.75.

— Inoculate Sweet Peas with NITRAGIN —

Satex Mammoth Zinnia

Don't Fail to Order Some of These Wonderful Zinnias

You may have often passed by a bed of mammoth Zinnias, and if you will ask the owner where he procured the seed of same, he will invariably answer that he procured them from us. Our strain of Mammoth Zinnias are known all over the state, and you cannot procure seed anywhere which will give you a better strain than our Mammoth variety. This strain produces flowers as large as the finest Dahlias, magnificent in petalage and of the brightest imaginable coloring.

	<b>Pkt.</b>	<b>Oz.</b>
Double Lavender	5c	.75
Double Pink	5c	.75
Double White	5c	.75
Double Red	5c	.75
Double Yellow	5c	.75
Double Scarlet	5c	.75
Double Mixed Giant	5c	.50

**GIANT DAHLIA FLOWERED ZINNIA**—Latest development in Zinnias with flowers of enormous size and resembling the decorative Dahlia very much in shape. Mixed colors. Pkt., 10c; oz., 90c.

**GIANT PICOTEE TYPE**—A remarkably new and distinct class with beautiful double flowers, each petal being distinctly tipped with various shades, resembling the Picotee Carnations. Pkt., 10c; oz., \$1.00.

**LILIPUT**—The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are very pretty plants; bloom all summer until late in the fall. Mixed pkt., 5c; ¼ oz., 25c; oz., 75c.





Tuberoses

Tuberoses

**MEXICAN EVERBLOOMING**—The most beautiful Tuberose that was ever brought to our attention. It begins to produce fragrant flowers in June and blooms continually until frost. Plant them in good soil and water them occasionally during extreme warm weather, and an abundance of lovely flowers will be the reward. In the southern part of the State the bulbs may be left in the ground all winter. **Doz., 40c; 100, \$2.00, postpaid.**

Gladiola Bulbs

Plant in open ground when danger of frost is past. Plant 8 inches apart and cover about 3 inches deep.

**AMERICA**—One of the most popular Gladiola offered; lavender pink flowers of very large size, borne on robust stems make delicate cut flowers. **Dozen, 50c, postpaid.**

**MRS. FRANK PENDLETON**—A very early variety. The flowers are of a beautiful salmon-pink with a creamy-white blotch in the throat which greatly enhances its beauty. **Dozen, 75c, postpaid.**

**HALLEY**—A most attractive early blooming sort with large well-opened flowers of a delicate salmon-pink with a creamy blotch on lower petals. **Dozen, 75c, postpaid.**

**PEACE**—One of the grandest white introductions of 1912. This variety seems to produce blossoms later in the season than any other variety. **Doz., 75c, postpaid.**


**MRS. FRANCIS KING**—The magnificent flowers measure 4½ inches across. A brilliant flaming pink, blazed with vermilion red. **Dozen, 75c, postpaid.**

**SCHWABEN**—For size of flower and keeping qualities this Gladiola is considered as being the best of yellows. **Doz., 75c, postpaid.**



SPRAY GUIDE

Insect or Disease	Control
Antracnose	Bordeaux Mixture.
Ants	Antrol, High Life, London Purple.
Aphis	Black Leaf "40", Destrnxol, Green Tox "50", Kaloil.
Beetles	Green Tox "50", Two Way Spray.
Blight	Bordeaux Mixture.
Boll Weevil	Calcium Arsenate.
Borers	Paradichlorobenzol.
Cabbage Worms	Green Tox "50", Kaolith, Shep's, Arsenate of Lead.
Codling Moth	Arsenate of Lead, Destruxol.
Cotton Leaf Worm	Paris Green.
Curenlio	Arsenate of Lead.
Cnt Worms	Snarol.
Harloquin Bug	Green Tox "50".
Leaf Cnrl	Dry Lime Sulpnr.
Leaf Hoppers	Green Tox "50", Black Leaf "40", Shep's.
Leaf Spot	Two Way Spray.
Leaf Rollers	Green Tox "50".
Mealy Bngs	Green Tox "50", Destrnxol.
Mildew	Sulphur, Destrnxol.
Potato Bng	Paris Green, Two Way Spray.
Red Spider	Green Tox "50", Dry Lime Sulpnr, Kalite.
Rose Chafer	Green Tox "50", Black Leaf "40", Destrnxol, Shep's.
Rot	Bordeaux Mixture.
San Jose Scale	Dry Lime Sulpnr, Destruxol.
Scab	Dry Lime Sulpnr, Destrnxol.
Snails	Snarol.
Sow Bugs	Snarol.
Squash Bugs	Green Tox "50".
Stink Bng	Green Tox "50".
Thrip	Black Leaf "40", Destruxol, Green Tox "50".
Tomato Worms	Kaolith, Two Way Spray, Green Tox "50".
Web Worm	Paris Green.
Weevil	Calcium Arsenate.



### HOTKAPS

For Earlier Crops.

Wax paper cones that protect your Crops against **FROST, WIND, RAIN, and INSECTS.**

Get 10 to 25% bigger crops—2 to 3 weeks earlier!

See page 19 for details and Prices.

NUMBER OF FEET OF ROWS PER ACRE		
Distance between rows		Feet of rows
18 inches	-----	29,010
24 inches	-----	21,758
30 inches	-----	17,427
36 inches	-----	14,526
42 inches	-----	12,439
48 inches	-----	10,853

TO PRODUCE A GIVEN NUMBER NUMBER OF PLANTS		
Variety		1 Oz. Seed
Asparagus	-----	800 plants
Broccoli	-----	4,000 plants
Cabbage	-----	4,000 plants
Cauliflower	-----	4,000 plants
Celery	-----	8,000 plants
Collards	-----	4,000 plants
Egg Plant	-----	2,000 plants
Onions	-----	1,500 plants
Pepper	-----	1,000 plants
Tomato	-----	3,000 plants

INCREASING PROFITS

Is a vital and interesting part of your business. No matter how good your soil may be, nor how well your seed germinates, if you do not protect your crop from the ravages of the insect world, you cannot hope to make much profit on your crops. It is a government-proven fact that not less than three millions of dollars are lost each year, that the insects of the world may feed and breed. You can control insect infestations if you will use preventive and prompt curative measures. Read page 22 of this catalog, and write for the free literature offered.



## Field Seeds

The varieties of field seed listed are adapted to the climate conditions of Southwest Texas. They are grown for us by the best growers of field seeds in the state, and you will find them of the best quality and true to name.

**NOTICE**—Owing to the fact that grain markets are constantly fluctuating, it is impossible for us to quote field seed in larger quantities than by the pound. Should you be interested in large quantities, we would be very glad to quote you on any item that you may be interested in. We especially recommend that you try some of the Arizona Grown Hegari and Milo Maize.

### Alfalfa

**HAIRY PERUVIAN**—Is particularly recommended for our own state of Texas. As compared with common alfalfa, Hairy Peruvian is more upright, less branched and has fewer and somewhat coarser stems and smaller crown. It is also characterized by rapid growth, large amount of leaves, quick recovery after cutting and ability to make growth in cool weather after ordinary alfalfa has ceased growing. **Lb., 25c, not postpaid.**

**WHITE FLOWERING SWEET CLOVER**—Thrives on practically all soils in Texas. Sweet Clover is a splendid soil builder and especially so when the entire crop is turned under. Every planter with cows should have a patch as it is a great milk producer. Sow at the rate of 15 to 20 pounds to the acre. **Lb., 25c, not postpaid.**

### Algeria

A new grain, very superior both as a grain and as a forage crop to any of the crops now being grown.

Produces in most cases from 2 to 3 times as much grain per acre as the other grains, and as much as 12 times as much fodder per acre.

It makes a large soft grain, the largest heads ever produced by any crop. The heads weighing from  $\frac{3}{4}$  to 1 pound, each making as high as 8 heads to the stool.

It makes a stalk from 4 to 5 feet, with leaves about twice the size of Indian Corn, and from 15 to 19 leaves to the stalk. **Lb., 20c, not postpaid.**



Alfalfa



Texas King

## Seed Corn

**SURE CROPPER CORN**—A truly remarkable drought resisting power. As old as is the history of corn growing in the South and Southwest is the search for a corn able to hold up and make a crop on the scanty moisture which we have in so many fields at some period of almost every season. In Sure Cropper we have found that corn. **Lb., 10c, not postpaid.**

**GIANT WHITE RED COB**—Makes a very large ear of the finest corn. Grains very large, deep, wide and thick, cob red, very popular wherever tried. We recommend this as being the finest variety of White Red Cob Corn. Has a very large, deep, wide, thick grain. Grains of medium size. **Lb., 10c, not postpaid.**

**GIANT YELLOW**—This beautiful yellow corn is deeply grained and very uniform in size. It is a sure cropper and good yielder. Matures in 90 to 100 days. **Lb., 10c, not postpaid.**

**NATIVE SQUAW CORN**—A drought-resisting variety, plantable in the summer months. It has blue and white grains, therefore not so desirable by the market gardener. However, it makes a sweet and very juicy roasting ear. **Lb., 10c, not postpaid.**

**TEXAS GROWN JUNE CORN**—The stalks under favorable conditions grow from 7 to 8 feet high, and yield from 30 to 60 bushels to the acre. For best results it should not be planted until June or July, as it stands the hot weather better than any corn. Seed can be procured at any time after May 15th. **Lb., 10c, not postpaid.**

**CHAMPION WHITE PEARL**—An extra early pure white variety of dent corn. Matures in 100 days from time of planting, is very productive and the ears are exceedingly heavy. The grains are extra deep and white, and the cob is very small. A great favorite. **Lb., 10c, not postpaid.**

**TEXAS KING**—A 90-day white corn. A cross of Surecropper and Hickory King. A splendid drought resister and a very heavy yielder. We suggest that you plant some of this in comparison with your present corn. **Lb., 10c, not postpaid.**

**DROUGHT RESISTER CORN**—It is a white early maturing, deep rooted, drought resisting corn, with medium size stalk; a corn that is easy to get a stand of, for it is a very hard variety and a fast grower. Reese Drought Resister is an exceptionally deep rooted corn with roots almost straight down, with an abundant root system, permitting plowing within 6 inches of stalk and to a depth of 6 inches without disturbing the root system. It is almost impossible for a man to pull up a stalk of Reese Drought Resister when in roasting ear. **Lb., 15c; pk., \$1.50, not postpaid.**

### CROTOX

PROTECTS Your Corn From  
Gophers, Rats, Birds, Etc.  
See page 21 for Full Details



## SEMESAN JR.

**SEMESAN JR.**—For Field and Sweet Corn. A simple, quick, inexpensive dust treatment with Semesan Jr. destroys harmful disease organism on the seed, protects seed from rotting in cold wet soil, controls seedling blight, reduces root and stalk rots and generally increases crop yields.

Harmless to seed corn. Does not slow up rate of drop. Only 2 ounces necessary per bushel of seed field or sweet corn. Costs only 2½c an acre.



**PRICES**  
4-oz. tin.....\$ .50  
1-lb. tin..... 1.75  
5-lb. tin..... 8.00  
25-lb. pail..... 31.25  
Ask for  
Free Booklet





## Popcorn

There is always a good market for Pop Corn, and every corn grower should plant it.

**JAP-O-RICE**—A newer variety. Cob small, grains long and slender. Used by nearly all commercial poppers. A really wonderful variety. **Lb., 15c, not postpaid.**

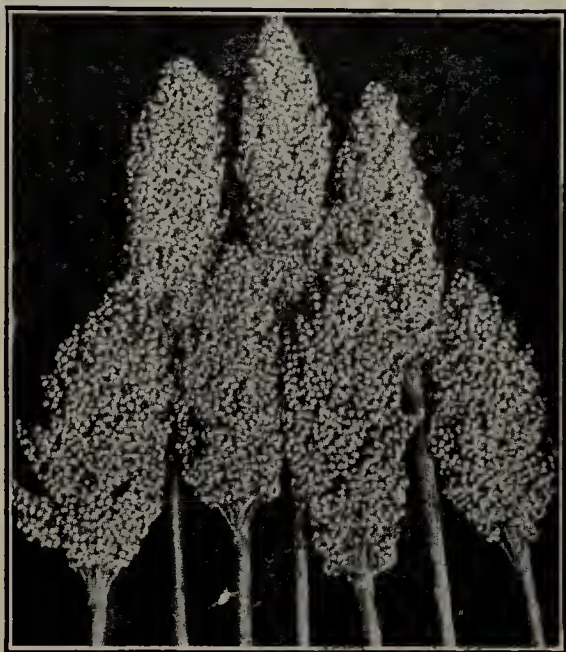
**GIANT YELLOW**—Produces ears in great abundance on stalks nearly 6 feet high. It pops perfectly white. A single kernel will expand to nearly an inch in diameter. **Lb., 15c, not postpaid.**

## Non-Saccharine Sorghums

**DWARF STRAIGHT NECK YELLOW MILO MAIZE**—This variety is the most wonderful Milo Maize and stands the drought well. It is earlier than Kaffir Corn and White Milo Maize, and very prolific. Stock seems to prefer it to corn, and it has a laxative effect on them, keeping them in good condition. **Lb., 10c, not postpaid.**

**DOUBLE DWARF YELLOW MILO**—Earlier than the old type Milo. The stalks are short, but large and stand remarkably well. The heads are large and the seed is larger or as large as the old type Milo. It will stand greater drought than most other sorghums and for that reason is adapted to dry farming. Should be extensively grown; in fact, every farmer should plant some of it. **Lb., 10c, not postpaid.**

**ARIZONA GROWN DOUBLE DWARF YELLOW MILO**—Without a doubt the finest strain of Double Dwarf Maize that you can buy. You will find this seed as true to type as it is possible to produce same. **Lb., 15c, not postpaid.**



Hegari

**HEGARI, the NEW GRAIN SORGHUM**—Some years ago when Kaffir Corn, Milo Maize and Feterita were introduced into the dryland farming crop catalog many people probably imagined that the limit in grain sorghum development had been reached; but that is almost certainly a mistake. We have abundant reason to hope for greater things yet. The new grain Sorghum Hegari, while it is too recent an introduction to justify settled conclusions, certainly promises in some respect, to out-merit all of its predecessors. **Lb., 10c, not postpaid.**

**ARIZONA GROWN HEGARI**—The finest of Hegari grown. It will pay you big dividends to plant some of this splendid variety. **Lb., 15c, not postpaid.**

**TRUE DARSO**—This wonderful Sorghum is neither saccharine nor non-saccharine. It originated in what is called a "spor" stalk brought in by a farmer in 1912 to the Experiment Station at Stillwater, Oklahoma. After 8 years experimenting Dean Knight stated it was the best silage and feed crop, and the people of Coryell County, Texas, seem to indorse same, as they are rather enthusiastic about it. It will cross with other grain sorghums if planted near them. Six pounds of seeds will plant an acre. **Lb., 10c, not postpaid.**

**DWARF BLACK HULL WHITE KAFFIR**—It makes a straight upright growth and has a strong stem with enormous wide leaves. The heads form at the top of each stalk. For the grain sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder sow one-half to one bushel, either broadcast or in drills. **Lb., 10c, not postpaid.**

**FETERITA**—The best drought-resistant non-saccharine Sorghum, and pretty well known in this state. Earlier than Kaffir Corn, and a very heavy yielder. The grain is similar to Milo, but is pure white and also larger and softer. It does not shatter badly and yields as high as 80 bushels to the acre. **Lb., 10c, not postpaid.**

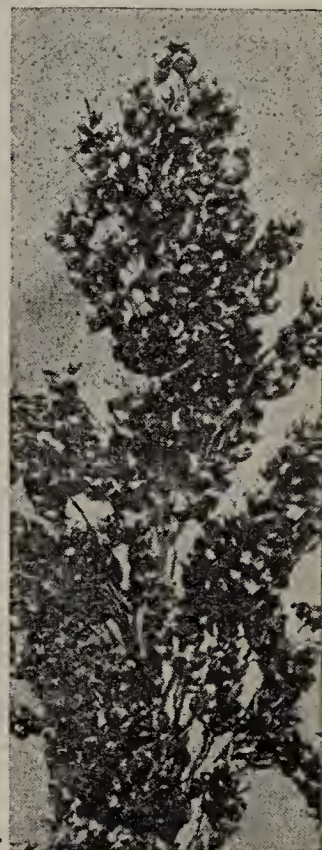
## Saccharine Sorghums

**RED TOP or SUMAC CANE**—This is the post popular variety for our State, and the one most generally planted. Seed is smaller than that of the Orange or Amber. Produces an immense quantity of fodder. **Lb., 10c, not postpaid.**

**EARLY ORANGE**—This variety has taller and heavier stalks than any variety of cane. It is not quite as early as the Early Amber, but is a better producer, and is better for syrup-making. **Lb., 10c, not postpaid.**

**EARLY AMBER**—This is the earliest sort, and makes fine hay, which is relished by all stock. **Lb., 10c, not postpaid.**

**JAPANESE HONEY DRIP**—Known in some sections as Japanese Seeded Ribbon Cane. It makes an unusually large stalk, sometimes as large in diameter as Ribbon Cane and much taller. Yields as much as four to five hundred gallons of the very best syrup to the acre. **Lb., 15c, not postpaid.**



Honey Drip

## Cow Peas

**WHIPPOORWILLS** — Has brown, speckled seed, easily gathered on account of the upright, bushy growth of the plants. The most generally planted pea on the market, being one of the earliest and best varieties on the market. **Lb., 15c, not postpaid.**

**CHINESE RED**—This cow pea seems similar to the Iron variety due to its resistance to wilt and root-knot caused by eel worms. The seeds are small and red and set in the pods very closely. The plant grows rather erect making it easy to cut. **Lb., 20c, not postpaid.**

**AUSTRIAN WINTER PEAS**—This variety of peas is fine to sow on black land to cover crop to plow under the green manure or for green feed for early spring. You may sow in fall or early spring. One of its main advantages is that it can stand a great deal of cold weather. **Lb., 15c, not postpaid.**

**CREAM PEAS**—This is the most beautiful table pea we have ever had the pleasure of offering our customers. It has given best satisfaction of any variety we have ever offered for table use, and very deservedly so, as there are none that can surpass it in splendid flavor. In point of yield they double the well known Blackeye, command a higher price on the market, cook quicker and are in every way superior to it as a table sort. It grows in bunch form. Peas are of a cream color. **Lb., 15c, not postpaid.**

**BROWN CROWDER**—An excellent bearer and vines make a splendid forage. Planted extensively as a dried pea. **Lb., 15c, not postpaid.**

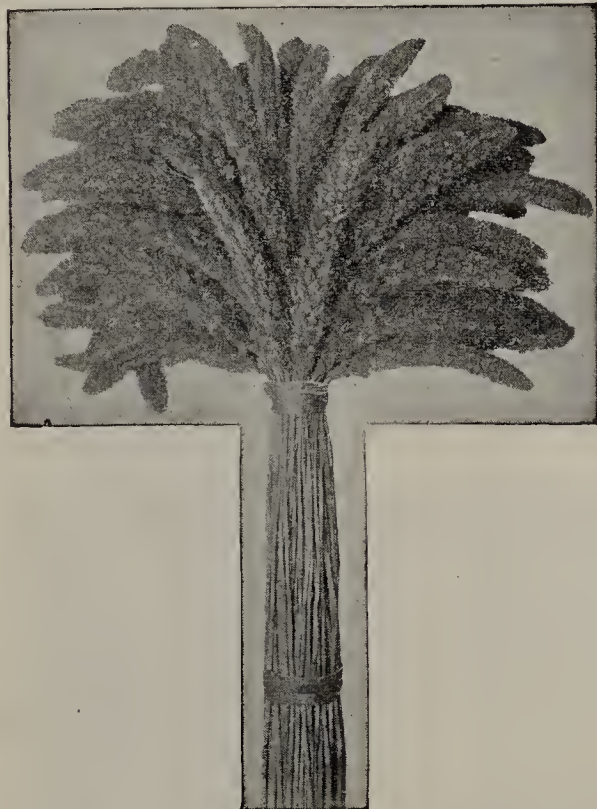
**BLACKEYE**—Grown extensively, as the dry peas find a ready market during the winter. The vines furnish excellent forage and produce large quantities. **Lb., 15c, not postpaid.**



## Grass Seed

**SUDAN GRASS**—The great hay and forage crop. This wonderful new grass seems to be taking the country by storm. This grass has been grown very extensively in Texas the past season and has been tested out in a number of other states and the verdict is unanimous, everywhere it has been grown it spells success. It seems to grow successfully on all kinds of land, stands dry weather and does not blight under ample rainfall. Sudan Grass is thought to be the original wild form of the cultivated sorghums. It is an annual, the seed having to be sown every year. It looks very much like Johnson Grass when growing but has a different root growth. Johnson Grass reproduces itself from the underground root stalks as well as from the seed. Sudan Grass will not sprout from the roots after frost has killed the plant. Ranges in height from 5 to 10 feet, stems small and somewhat more leafy than Johnson Grass. Like the sorghum crops it must be planted each spring and dies when the frost comes. **Lb., 10c, not postpaid.**

**BERMUDA GRASS**—Almost everybody living in this section of the country known this grass. It is planted as a lawn grass, and nothing will stand the sun better, or will make a prettier carpet, when kept short, than this grass. It is also very valuable as a pasture and hay grass, which heretofore had to be propagated by the roots. **Lb., 50c; 10 lbs., \$1.50; 100 lbs., \$30.00, not postpaid.**



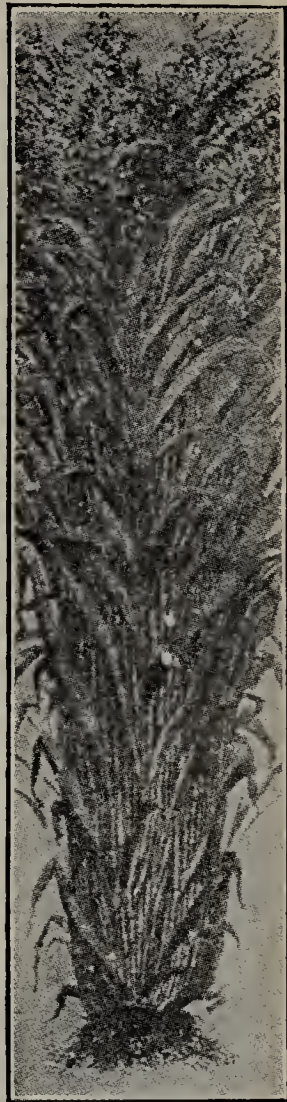
Millet

**ENGLISH RYE GRASS**—Is largely sown by our landscape gardeners for winter lawns on Bermuda soil. The Bermuda blades being easily affected by frost, become red and rusty looking, while English Rye during winter presents a most beautiful appearance, being of a vivid green, and as the Bermuda during April and May makes its appearance it overgrows the English Rye, causing the latter to decay and act as a fertilizer to the existing grass. It should be sown from September to March at the rate of 3 to 4 bushels of seed per acre. **Lb., 10c; 10 lbs., 85c; 100 lbs., \$6.50, not postpaid.**

## Millet

**FANCY BIG GERMAN**—The most popular of all the Millet for hay or seed. It matures in 6 to 8 weeks after planting. If wanted for hay, it should be cut while in bloom, as the hay quality decreases as soon as the seed hardens in the head. Our variety of Millet is the best and you will find it superior to any variety. **Lb., 15c, not postpaid.**

**HOG MILLET**—The seed is large for a Millet and makes a rich food. Good for hogs or chickens. The seed ripens while the stem is yet green, so that if cut promptly you can get a crop of seed and also one of fodder or ensilage. **Lb., 15c, not postpaid.**



Sudan

## Peanuts

**SPANISH**—The earliest variety grown, pods are small, but remarkably well filled and solid, and the yield per acre is very large. Can be cultivated with the plow. Because of its early habit and easy cultivation it is the best variety to grow for fattening hogs. **Lb., 10c not postpaid.**

**WHITE JUMBO**—This is the standard variety for roasting. The peanuts are three



times as large as those of the ordinary Spanish peanut. The nuts proper grow in fine double-jointed hulls of beautiful appearance, are from one-half to one inch in length, and of fine flavor. An excellent variety, worthy of the highest recommendation. **Lb., 15c, not postpaid.**

## Rape Seed

**DWARF ESSEX**—This is considered the most desirable variety of Rape, and should be planted on every farm and in every garden. Furnishes rich, nutritious pasture and green feed six to seven weeks after planting. **Lb., 15c; 10 lbs., \$1.25, not postpaid.**

## Sunflower

**MAMMOTH RUSSIAN**—Produces very large heads sometimes 15 inches across. The seeds are valued very highly as a feed for poultry. The seed can be planted on a waste piece of ground any time in the early spring and until the middle of July. Should be sown at the rate of about three pounds to the acre. **Lb., 15c; 10 lbs., \$1.00, not postpaid.**

## Field Beans

**PINTO BEANS**—Grown mostly for a dry bean but makes a good snap bean when the pod is young and green. Pods flat and tender. **Lb., 15c, not postpaid.**

**PINK BEANS**—Grown extensively as a dry bean and finds a ready market. **Lb., 15c, not postpaid.**

## KILL

### JOHNSON GRASS WITH Atlacide Non-Poisonous Weed Killer

Atlacide Non-Poisonous Weed Killer exterminates all undesirable vegetation—including poison ivy, etc.—as easily as watering a garden, without poison hazard to humans or animals. Simply mix with water and apply on any vegetation—weeds, grass, etc., with a sprinkling can or sprayer. Especially recommended for obtaining weed-free driveways, paths, tennis courts and gutters. **1 lb., 30c; 10 lbs., \$2.50, not postpaid.**





The Plain Glass Brooder House      The Flex-O-Glass Brooder House

# Scientists Discover Plain Glass Kills Your Chicks

IT sounds as ridiculous as Radio did to our grandfathers; but this test at the Nebraska Experiment Farm proved it true beyond any doubt.

All of the above chicks were of equal health; weight and number when three days old. The group at the left was put under plain glass. The group at the right was under Flex-O-Glass, as you see above, and all were fed and cared for the same. These photos were taken when the chicks were eight weeks old, and all but three chicks had died under plain glass. It had actually killed them. The chicks under Flex-O-Glass were all strong, healthy, full of pep; free from rickets (weak legs), and past the critical stage as you can easily see. This proves the sun's Ultra-Violet (health-producing) rays which Flex-O-Glass admits make chicks grow amazingly fast and strong.

## Actual Proof—Not Just Guesswork

Similar tests were conducted by the Iowa, Ohio, Wisconsin and Kansas State Experiment Stations, the American Medical Association (the world's greatest authorities); as well as thousands of users in every State, and the exceptional results they had with chicks raised under Flex-O-Glass has caused a Sensational National Recommendation of this wonderful product for all poultry house and brooder windows, in place of glass.—And FLEX-O-GLASS costs only one-eighth as much as glass, is cut with ordinary shears, nailed on, easily removed and re-installed. FLEX-O-GLASS pays for itself in a few days in extra chicks saved—but it lasts for years.

It doesn't pay to turn your chicks out in the spring rains, slush and snow to catch cold and die. Science has proved you cannot raise them successfully under glass. Put them in a brooder house with large FLEX-O-GLASS windows that admit plenty of unskimmed sunlight. Every chick will stay healthy, free from rickets (weak legs) and other diseases. Their fast, strong growth will be amazing. Use 15 square yards of FLEX-O-GLASS—only \$5.00 worth—for 300 chicks. Also keep your hens in this coop next winter and gather eggs while they are high. Raise your early pigs under FLEX-O-GLASS. Give them actual sunshine indoors—Nature's only health producer. FLEX-O-GLASS Hotbeds raise strong plants for transplanting. Frames are light, easily made, easily handled and hold heat better than glass. "FLEX-O-GLASS" marked on every yard assures perfect satisfaction, as its exceptional qualities are fully protected by patents.



Extra eggs, of chicks saved pays for this scratch shed in a few days.      Ideal for enclosing porches, covering screen doors, etc.      Hotbeds that grow plants quicker and stronger to transplant.      Easily nailed up for Barn, Poultry House, Hog House or Garage Windows.

**FLEX-O-GLASS ADMITS ULTRA-VIOLET RAYS**  
Only 1/8 Cost of Glass — Weather Proof—Unbreakable  
**SPECIAL:—15 SQ. YDS. FOR \$5 AT**

**— \$4.05 —**

1 yard	-----	\$0.35
10 yards	-----	2.70
25 yards	-----	6.75



# CROPS TO MARKET 3 WEEKS EARLIER FOR HIGHER PRICES!

No need to worry about crops if you protect them with Hotkaps. Each plant is safe in its own "individual hothouse"—completely protected against frost, wind, rain, insects, etc. Hotkaps also preserve the mulch around each plant.

They are wax paper cones, easily placed over seeds or plants at time of planting. Crops are 10 to 25% larger and mature 2 to 3 weeks earlier—in time for early prices and extra profits.

Hotkaps are inexpensive, and easy to use. They pay for themselves many times over.

Prices: 1000 for \$9.75; 250 package with setter, \$3.50; 100 package with setter, \$2.25; steel setter, \$2.25. Postage extra.



Germaco  
**Hotkaps**

## NUMBER OF PLANTS REQUIRED TO PLANT AN ACRE

Distance apart	No. Plants
18 x 3 inches	116,040
18 x 4 inches	87,030
18 x 6 inches	58,020
18 x 12 inches	29,040
18 x 18 inches	19,360
24 x 4 inches	65,274
24 x 6 inches	43,516
24 x 18 inches	15,520
24 x 24 inches	10,890
30 x 4 inches	52,281
30 x 6 inches	34,848
30 x 12 inches	17,424
30 x 18 inches	11,616
30 x 24 inches	8,712
30 x 30 inches	6,970
36 x 12 inches	14,520
36 x 18 inches	9,680
36 x 24 inches	7,260
36 x 36 inches	4,840
48 x 36 inches	3,630
48 x 48 inches	2,723
6 x 4 feet	1,818
6 x 6 feet	1,210
8 x 8 feet	680
10 x 10 feet	435
12 x 12 feet	302





*Don't envy  
your neighbor's  
luxuriant lawn—  
have one yourself  
... Plan now*

For Best Results  
use  
*Armour's*



VERT promotes rapid, healthy growth by supplying a readily available ration.

Use VERT on your lawn, shrubs, trees, flowers and vegetables. The results will make you happy.

*If it is not green, it is not VERT*



FOR  
Better Lawns  
---  
Better Flowers  
---  
Better Vegetables  
---  
Better Shrubs

You can have better lawns, flowers, and vegetables, if you use hardy, disease-free seed and the right plant food.

Plants, like human beings, must receive the right nourishment. VERT provides an economical, practical, and effective way to secure finest results. Economical because the cost is only 10c to 20c for every 100 square feet. Practical because it is clean, odorless, easy to apply—can be sown by hand like grass seed or applied with an ordinary kitchen collander. Effective because it contains all of the elements of plant food required to produce early, vigorous growth and bring fruit, flowers, and foliage to full development. Complete direction in every bag.

100-lb. bag	-----	\$5.00
50-lb. bag	-----	3.00
25-lb. bag	-----	1.75
5-lb. canister	-----	.50

## Armour's Fertilizers

NOTE—Prices on all fertilizers are subject to market changes.  
Write for quantity prices.

**Acid Phosphate—16%**—It gives excellent results on nearly all crops, but is especially recommended for use on grains and grasses. Prices: Lb., 4c; 100 lbs., \$1.50.

**Bone Meal**—Ground very fine. Acts very quickly. There is no better fertilizer for the home garden than this splendid material. Splendid for rose beds, pot plants, etc. Prices: Lb., 5c; 100 lbs., \$2.35.

**Lime (Hydrated)**—For the sweetening and renovating of land that has become sour. It promotes growth and has a tendency to prevent weeds. Prices: Lb., 2c; 40 lbs., 40c.

**Nitrate of Soda**—A fertilizer very quick in action and used for the nitrogen it contains. Will mature a crop several weeks earlier and greatly improve it. Prices: Lb., 6c; 100 lbs., \$3.00.

**Muriate of Potash**—To be used liberally, especially for root crops. Lb., 5c; 100 lbs., \$3.25.

**Ammonia Sulphate**—Contains approximately 25% ammonia (nitrogen). One of the highest nitrogen foods. Prices: Lb., 6c; 100 lbs., \$2.25.

**Armour's 6-12-6**—A mixture for cotton and corn growers. Also used by truck farmers for potatoes, watermelon, tomatoes, etc. Prices: Lb., 5c; 100 lbs., \$2.30.

**Armour's 6-10-7**—A mixture for the grower who desires a lower Phosphate content. Prices: Lb., 5c; 100 lbs., \$2.25.

**Armour's 5-15-5**—A mixture for the grower who desires a high Phosphate content. Prices: Lb., 5c; 100 lbs., \$2.40.

**Armour's 9-18-18**—This brand has been especially prepared for such crops as require a quick, strong fertilizer. Especially recommended for potatoes, strawberries, watermelons, and all garden truck. Prices: Lb., 6c; 100 lbs., \$3.50.

# Quickly Kills Garden Pests



## Snarol

Science Provides New, Safe Method  
That Does the Work Without Fuss.  
Cutworms, Sowbugs, Grasshoppers,  
Slugs, Snails, Earwigs, Etc., Are  
Exterminated.



Snarol is a ready-prepared meal that you simply broadcast on the ground, under the vegetation. These pests eat the meal, and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling, and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls and make Snarol popular with professional gardeners and poultrymen.

Prices: 1½-lb. pkg., 35c; 3-lb. pkg., 70c; 15-lb. bag, \$3.00; 50-lb. bag, \$8.00.





**Fresh Each Year  
Leads in High Germ  
Count**

**Alfalfa, Clovers,  
Soy beans, Peas,  
Cow Peas, Beans,  
Vetch, Lespedeza**

**ALWAYS LOOK  
on the Label  
for the GERM COUNT  
Expiration DATE  
and the PRICE**

**INOCULATE  
Your legumes with**



**COSTS LESS—ALWAYS RELIABLE**

When you buy NITRAGIN you BUY BILLIONS of FRESH Legume Germs—not just a package of inoculation. Germ Count and Expiration Date gives you double protection—and more for your money. Don't gamble—buy NITRAGIN.

**EASY TO APPLY—WITH OR WITHOUT WATER**

NITRAGIN is a granular MOIST soil-like culture packed in tins. If mixed well can be applied to seed without water, and good inoculation will result. However any inoculation will give more uniform results when water is used.

*Remember, NITRAGIN can do anything claimed by other inoculators — and do it BETTER and CHEAPER.*

**NITRAGIN INOCULATION PRICES**  
When ordering, always specify kind of seed.

<p><b>Alfalfa, All Clovers</b></p> <table border="0"> <tr> <th>Size</th> <th>Retail</th> </tr> <tr> <td>½ bu. ....</td> <td>\$ .50</td> </tr> <tr> <td>1 bu. ....</td> <td>.90</td> </tr> <tr> <td>5 bu. ....</td> <td>4.00</td> </tr> </table> <p><b>Peas, Vetch, Beans, Austrian Winter Peas</b></p> <table border="0"> <tr> <th>Size</th> <th>Retail</th> </tr> <tr> <td>½ bu. ....</td> <td>\$ .40</td> </tr> <tr> <td>1 bu. ....</td> <td>.60</td> </tr> <tr> <td>*1-2/3 bu. ....</td> <td>.90</td> </tr> <tr> <td>5 bu. ....</td> <td>2.50</td> </tr> <tr> <td colspan="2">*“100 lb. size.” Packed only for Vetch and Aust. Pea.</td> </tr> </table>	Size	Retail	½ bu. ....	\$ .50	1 bu. ....	.90	5 bu. ....	4.00	Size	Retail	½ bu. ....	\$ .40	1 bu. ....	.60	*1-2/3 bu. ....	.90	5 bu. ....	2.50	*“100 lb. size.” Packed only for Vetch and Aust. Pea.		<p><b>Soy Beans, Cow Peas Lespedeza (Hulled)</b></p> <table border="0"> <tr> <th>Size</th> <th>Retail</th> </tr> <tr> <td>1 bu. ....</td> <td>\$ .40</td> </tr> <tr> <td>2 bu. ....</td> <td>.70</td> </tr> <tr> <td>5 bu. ....</td> <td>1.50</td> </tr> <tr> <td>10 bu. ....</td> <td>2.50</td> </tr> </table> <p><b>Garden NITRAGIN for Peas, Beans, Sweet Peas</b></p> <p>Inoculates from 1 oz. to 8 lbs. seed, Price 25c</p>	Size	Retail	1 bu. ....	\$ .40	2 bu. ....	.70	5 bu. ....	1.50	10 bu. ....	2.50
Size	Retail																														
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**NITRAGIN Has Served the American Farmer Since 1898**

## Stim-U-Plant



### PLANT FOOD IN TABLET FORM

The modern efficient and scientific method of fertilizing all kinds and conditions of growing plants in home garden, orchard and on farms.

**STIM-U-PLANT**—Is a 26-grain tablet with a guaranteed chemical analysis of 11% Nitrogen, 12% Phosphoric Acid and 15% Potash. No other plant food contains anything like as high an analysis as this.

1. They give an exact feeding unit.
2. No messy mixing.
3. No unpleasant odor.
4. Maximum efficiency because no food-value lost in scattering, leaching, or run-off of soil surface-water.
5. Makes repotting of plants unnecessary as it replaces the food withdrawn by the growing plant.

Stim-U-Plant tablets are packed in four sizes:

- \*Trial Size, 15 cents. Containing 10 Tablets.
- \*Small Size, 25 cents. Containing 30 Tablets.
- \*Medium Size, 75 cents. Containing 100 Tablets.
- \*Bucket, \$3.50. Containing 1,000 Tablets.

Postpaid



## CROTOX

### BIRD AND RODENT REPELLENT

Treats All Smooth Surface Seeds

Saves Seed Loss and Replanting

**BONIDE CRO-TOX** protects your seeds during the period when they are most easily damaged by ridding your fields of crows, doves, larks, starlings, blackbirds, pheasants and other seed-pulling birds and rodents, such as squirrels, woodchucks, moles, etc.

No need to replant seed when Bonide Cro-Tox is used. Birds and rodents will not molest seeds treated with Bonide Cro-Tox. Bonide Cro-Tox saves you expense and labor of replanting—assists you in preventing seed rot—aids and hastens germination. A guaranteed protection against seed pests at an insignificant cost of a few cents per acre.

#### What Bonide Cro-Tox Is

Bonide Cro-Tox is a combination of many ingredients, scientifically combined for use on all smooth-surfaced seeds, so as to give the surest protection against seed pests. Bonide Cro-Tox is unlike the commonly used crow repellents which are for treating seed corn only. Bonide Cro-Tox embodies many ingredients which are not found in the so-called crow repellents. Bonide Cro-Tox can be used on all smooth-surface seeds.

½-Pt. can—treats 1 bushel seed.....	\$ .60
1-Pt. can—treats 2 bushels seed.....	1.00
1-Qt. can—treats 4 bushels seed.....	1.50

## Protect

**YOUR SEED FROM WEEVIL  
PEACH TREES FROM TREE BORER  
BEE HIVES FROM MOTHS  
KEEP MOTHS OUT OF CLOTHES**

with

## Paradichlorobenze (P.D.B.)

**PARADICHLOROBENZE**—A friend to the farmer who has been troubled with weevil. It is taking the place of Carbon Bisulphide (High Life) as it lasts longer and no danger of fire. Two ounces placed in a barrel of grain will do more good than 25c High Life. Every farmer should have a few pounds of PARADICHLOROBENZE handy when putting away his planting seed for the next season. Do not use on beans or peas that you desire for eating purposes, as it leaves a strong taste in the seeds so that they are unfit for food.

The PARADICHLOROBENZE method has rapidly replaced the old fashioned “worming” process for the control of borers. Digging the worms out with a knife may be as injurious to the tree as the worm. In two “wormings” with a knife it is seldom possible to get more than 90% of the pests. With PARADICHLOROBENZE, however, it is a common occurrence to kill from 95% to 100% with one application, and it is also a great deal less bother.

PARADICHLOROBENZE is applied to the cleaned surface of the ground around the base of the tree, after any masses of gum have been removed from the tree trunk. The trunk should be completely encircled by one ounce of the white crystals, care being taken to leave two inches space between the trunk and the inside of the white band. This mound is then covered with fine earth and packed down firmly.

PARADICHLOROBENZE is recommended for use in bee hives to keep out moths. Also keeps moths out of clothes and used as a deodorant. ¼ lb., 15c; ½ lb., 25c; 1 lb., 45c.

**CARBON BISULPHIDE (High Life)**—Used very extensively in fighting harvester and cut ants. Most effective if used after a good rain, pour carbon bisulphide into nest opening late in the evening and close up opening. Use from 1 quart to gallon depending upon size of nests. As a weevil control use 2 to 3 ounces to a 50-gallon drum. Qts., 75c; Gal., \$2.25, not mailable.





# SPRAYING PAYS

## ACME Insecticides and Fungicides

A RELIABLE BRAND



### Acme Garden Guard

A garden insecticide and fungicide for use as a dust. No water, no mixing, no fuss.

For use on Cabbage, Cauliflower, Tomato Plants, Melon Vines, Currants and Gooseberries and other vegetables, flowers and shrubs of many kinds. Prices: 1-lb. sifter carton, 25c; 5 lbs., 75c; not available.



### Acme Paris Green

A rich emerald color and of fine fluffy physical character. Containing 55% arsenious oxide, it will give quickest control where extreme measures are necessary.

For use on: Potatoes, Cotton, Tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary. Prices: 1/4 lb., 15c; 1 lb., 50c; 5 lbs., \$2.25; not available.



### Acme Two-Way Spray

A balanced insecticide and fungicide containing 14% arsenate of lead and 83% Bordeaux Mixture. Two results with one application.

Use wet or dry on: Apple, Sour Cherry, Currant and Gooseberry, Grape, Pear, Plum, Strawberry, Pecan, Bean, Beet, Cucumber, Pepper, Potato, Tomato and many other fruits and vegetables. Prices: 1/2 lb., 25c; 1 lb., 40c; 4 lbs., \$1.00; not available.



### Acme Lime Sulfur

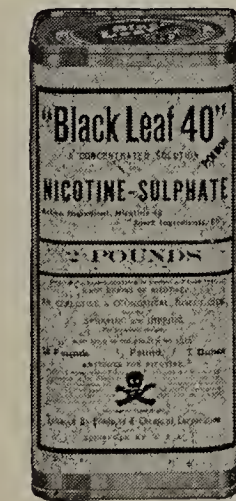
A standard 33° Baume lime and sulphur converted into a dry powder but having all the effectiveness of the liquid product when dissolved in water.

For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mite. Prices: 1 lb., 35c; 5 lbs., \$1.40; 10 lbs., \$2.50; 100 lbs., \$14.00; not available.

### Acme Spray Soap

A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Also used extensively with cylinder oils in making oil emulsions to reduce the surface tension.

Its use with Nicotine greatly increases the value of that spray. Prices: 1 lb., 35c; 5 lbs., \$1.40.



**Black Leaf "40"**—A concentrated solution of nicotine sulphate for combating aphids or plant lice. 1-oz. bottle, 35c; 5-oz. bottle, \$1; 1-lb. can, \$2.10; 2-lb. can, \$3.10; 5-lb. can, \$5.85; 10-lb. can, \$10.15; not available.

**Tobacco Dust**—Effective against cabbage fly and worms. Prices: Lb., 8c; 10 lbs., 60c; 100 lbs., \$5.50.

**Dry Milled Sulphur**—Used as a fungicide, also for blight or mildew on roses. Lb., 10c; 100 lbs., \$5.00.

**Acme Dusting Sulphur**—For mildew, black spot on roses and other plant diseases. 3-lb. pkg., 45c.

**Copper Sulphate (Blue Stone)**—Used for making Bordeaux Mixture. Lb., 15c; 100 lbs., \$7.50.

**Copperas (Sulphate of Iron)**—A splendid neutralizer of alkali in the soil. Use 200 to 400 pounds per acre; also fine for lawns. Lb., 5c; 25 lbs., \$1.00; 100 lbs., \$3.50.

### Acme London Purple

A favored insecticide for 50 years. Now stronger and better than ever. London Purple is one of the lightest and fluffiest powder insecticides on the market, assuring complete coverage and greatest adhesion to foliage.

For use on Potatoes, Cotton, Tobacco, Sugar Beets, and many other shrubs and vegetables affected by leaf chewing insects. Prices: 1/4 lb., 15c; 1 lb., 35c; 4 lbs., 70c; not available.

### Acme Arsenate of Lead

The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and tobacco. Can be used as dust or spray. Prices: 1/2 lb., 20c; 1 lb., 35c; 4 lbs., 75c; not available.

### Acme Bordeaux Mixture

Prevents large losses caused by blight, rot, mildew, scab, anthracnose, and certain other fungous diseases. It stimulates plant growth and greatly increases the harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture. 1 lb., 35c; 4 lbs., 75c; not available.

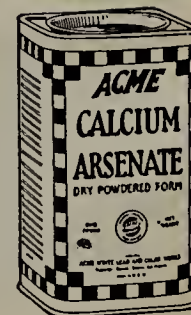
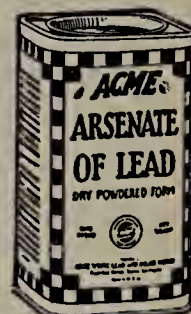
### Acme All Round Spray

Flowers, vines, shrubs, roses, vegetables, need protection same as commercial crops. All Round Spray contains the three leading remedies used by all large growers. Arsenate of Lead, Nicotine Sulphate and Bordeaux Mixture.

Perfect protection for the small user is assured by complete directions in form of spraying guide attached to every package. Prices: 1/4 lb., 40c; 1 lb., 90c; not available.

### Acme Calcium Arsenate

The cheapest arsenical insecticide on the market but of great economy and efficiency for certain purposes. The accepted dust for boll weevil poisoning on cotton; also recommended to combat chewing insects on Potatoes, Vegetables. Cotton and certain fruit trees. Prices: 1/2 lb., 15c; 1 lb., 25c; 4 lbs., 60c; 100 lbs., \$8.50; not available.

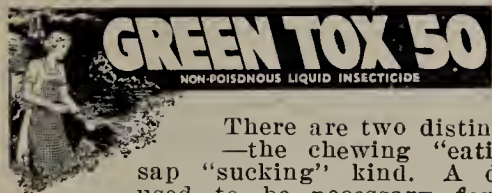


## ACME SPRAYING GUIDE

Companions of  
Acme White Lead and Color Works WHEN AND WHAT TO SPRAY *See* *Companions*  
Davenport, Mo.  
Write for this Fine Guide Free

GROUP	SPRAY WITH	SPRAY WHEN	SPRAY HOW
1. Apple	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
2. Peach	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
3. Pear	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
4. Plum	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
5. Strawberry	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
6. Cucumber	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
7. Tomato	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
8. Potato	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
9. Tobacco	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
10. Cotton	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
11. Sugar Beet	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
12. Cabbage	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
13. Cauliflower	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
14. Melon	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
15. Pumpkin	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
16. Squash	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
17. Eggplant	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
18. Zucchini	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
19. Asparagus	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
20. Broccoli	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
21. Cauliflower	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
22. Brussels Sprouts	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
23. Kohlrabi	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
24. Turnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
25. Rutabaga	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
26. Parsnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
27. Beet	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
28. Chard	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
29. Spinach	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
30. Lettuce	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
31. Cabbage	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
32. Cauliflower	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
33. Broccoli	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
34. Brussels Sprouts	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
35. Kohlrabi	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
36. Turnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
37. Rutabaga	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
38. Parsnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
39. Beet	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
40. Chard	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
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49. Rutabaga	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
50. Parsnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
51. Beet	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
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57. Broccoli	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
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59. Kohlrabi	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
60. Turnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
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78. Lettuce	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
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80. Cauliflower	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
81. Broccoli	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
82. Brussels Sprouts	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
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86. Parsnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
87. Beet	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
88. Chard	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
89. Spinach	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
90. Lettuce	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
91. Cabbage	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
92. Cauliflower	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
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96. Turnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
97. Rutabaga	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
98. Parsnip	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
99. Beet	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.
100. Chard	Dry Leaf Sulphur	10 to 15 days before blossoms open	1 lb. per 100 sq. ft.





## KILLS

Leaf-Eating and  
Sucking Insects

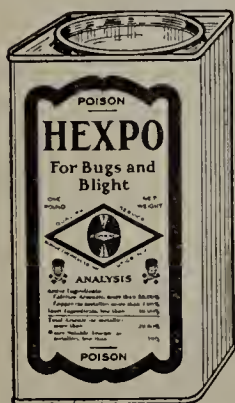
There are two distinct classes of insects—the chewing “eating” kind and the sap “sucking” kind. A different insecticide used to be necessary for each class. Now “Green Tox 50” kills both. It kills the sap-sucking kind by contact and the chewing kind by stomach poisoning—yet, it is harmless to humans and domestic animals. “Green Tox 50” does not injure blossoms or foliage. Leaves sprayed with “Green Tox 50” remain toxic to insects for many days. “Green Tox 50” will be found effective in killing aphids, plant lice, black flies, green flies, leaf-hoppers, thrips, red spiders and other sucking insects, also leaf-eating larvae such as potato bug, cabbage worm, saw fly larvae, etc.; aster beetles, Japanese beetle, Mexican bean beetle, striped cucumber beetle, ants, chicken mites, fleas on dogs, lice on cattle, etc.

“Green Tox 50” is non-poisonous to humans, animals and birds, but sure death to “chewing” and “sucking” insects. No danger from eating fruit or vegetables sprayed with “Green Tox 50”.

1 oz. ----- \$ .35—makes 30 quarts spray ready for use  
6 oz. ----- 1.00—makes 45 gallons spray ready for use  
1 pt. ----- 2.00—makes 120 gallons spray ready for use  
1 qt. ----- 3.50—makes 240 gallons spray ready for use  
Mailable

## HEXPO

Hexpo is an improved balanced combination spray for combating chewing insects and fungus diseases in one application. It is in dry powdered form and can be used as a dust or it mixes readily with water.



**Double Strength**—Hexpo contains 32% Arsenic Oxide—2% more killing power than the strongest Arsenate of Lead—17% more killing power than paste preparations. Arsenic Oxide is combined with Bordeaux Mixture of the highest grade that is free from grit and large particles and of a microscopic fineness. It is light and fluffy, handles well in the spray tank and coats the leaves, branches and fruit with a tenacious film that will adhere to the surface upon which it has been sprayed, remaining there in sufficient quantity to afford protection even after repeated rains.

**Double Duty (2-in-1)**—Hexpo is the strongest and safest combined preparation to use for the prevention of certain fungus diseases and chewing insects. It kills bugs and prevents blight at the one operation—a big saving, in time and labor, the most expensive items of spraying. Hexpo should be used wherever possible to reduce spraying costs. It possesses superior suspension qualities, uniformity and fineness to any home-made combination. **Not mailable.**

1-lb. pkg.----- \$0.35  
4-lb. pkg.----- 1.20

## Kalo Insecticides

Contains no Arsenic, Lead, Copper or Nicotine

**KAOLITH**—Replaces Lead Arsenate Spray for most uses on fruits and vegetables. Mixes readily with water. Usual strength for most purposes, 1 pound KAOLITH to 50 gallons of water. ½ lb., 35c; 4 lbs., \$1.75. Mailable.

**KALOIL**—Primarily for sucking insects such as aphids (plant lice), leaf hoppers, etc., or wherever a contact insecticide is required 1½ oz., 35c; 6 oz., \$1. Mailable.

**KALITE**—Use as a dust for chewing insects. 1 lb., 35c; 3¼ lbs., \$1. Mailable.

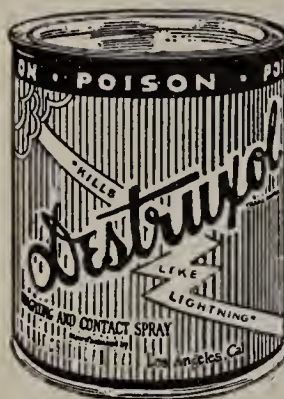
## SHEPS PLANT SPRAY (NON-POISONOUS)



Get rid of destructive insects. Use SHEPS Plant Spray. Kills and controls both sucking and chewing insects but absolutely harmless to humans, birds, animals and pets. Will not “burn” delicate leaves or flowers. Makes green, healthy, lustrous foliage. No soap solution needed—simply mix with water.

### PRICES POSTPAID

2-oz. Bottle (makes 4 gals. Spray Solution)..... \$ .35  
8-oz. Bottle ( " 16 " " " )..... .75  
1-pt. Bottle ( " 32 " " " )..... 1.25  
Quart Can ( " 64 " " " )..... 2.00



## Destruxol

This is one of the finest sprays we know for use against such common garden pests as aphids, thrips, lice, red spider, leaf roller hoppers, mealy bugs and mildew. It contains Nicotine Sulphate, Cyanide, etc., the Cyanide giving off fumes which reach insect life on the under side of foliage. Destruxol may be used at all seasons with entire safety although the warmer the weather, the greater is the fuming action. There is little chance of burning or checking growth and on roses or other hardy subjects, the solution may be used at double strength. Use 1 large teaspoonful of Destruxol to 1 gallon of water.

1 oz. makes 5 gallons spray----- \$ .40  
2 oz. makes 10 gallons spray----- .65  
¼ pt. makes 25 gallons spray----- .90  
½ pt. makes 50 gallons spray----- 1.65  
1 pt. makes 100 gallons spray----- 2.50  
1 qt. makes 200 gallons spray----- 4.25

Must be sent via express. Not mailable

## Increase Farm Profits and Gardening Pleasures

Prevent Disease Losses by Using Du Bay  
Seed Disinfectants



### SEMESAN—For Vegetable and Flower Seeds.

Diseases often reduce germination and result in a poor stand, lowered quality and reduced yield of vegetables and flowers. Kill these harmful disease organisms on the seed with Semesan before planting. Semesan may be applied as a dust or liquid and is harmless to seeds. Effective in controlling damping-off of seedlings and certain cuttings. Full directions in can for use on vegetable and flower seeds and bulbs. Prices: 2 oz., 50c; 1 lb., \$2.75; 5 lb., \$13.00; 25 lb., \$56.25.

### SEMESAN BEL—For Seed Potatoes.

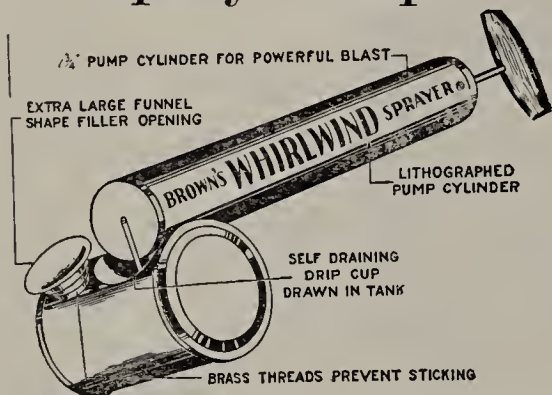
Potato diseases cause a loss equivalent to the yield of 1 acre in every 5 or 6 acres planted. Much of this loss can be prevented by treating seed before planting with Semesan Bel, the instantaneous dip disinfectant. Effective in controlling such seed-borne diseases as scab, rhizoctonia and black leg. Protects seed piece from rotting caused by certain soil-borne organisms, improves germination and usually produces a bigger crop of better quality. One pound treats 16 to 22 bushels of seed. Prices: 4 oz., 50c; 1 lb., \$1.75; 5 lb., \$8.00; 25 lb., \$31.25.

### CERESAN—For Seed Grains.

Why lose part of your grain crops through smuts and other diseases? Prevent them and protect your profits by treating all seed grains with Ceresan before sowing. Effective in controlling stinking smut and seed-borne flag smut of wheat; seedling blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Ceresan is harmless to seed and does not injure grain drills. Only 2 ounces needed per bushel of seed wheat, rye, sorghums, or millets, and 3 ounces for oats and barley. Prices: 1 lb., 75c; 5 lbs., \$3.00; 25 lbs., \$12.50.



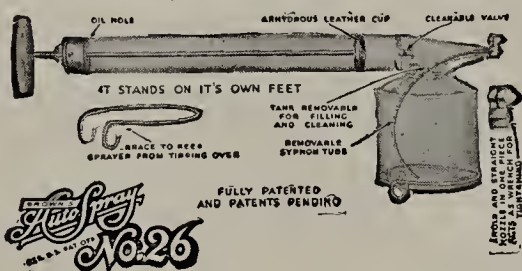
## Spray Pumps



We carry in stock two styles of Hand Sprayers. No. 2 and No. 4. They are made of good grade material, and will give good service.

Pt. No. 2 Hand Sprayer (not postpaid)-----\$ .25  
 Qt. No. 4 Hand Sprayer (not postpaid)----- .40  
 Qt. No. 440 Utility Sprayer (not postpaid)----- .35

## It Sprays Continuously



The Continuous Sprayer has a feature which will give you a continuous spray as long as there is any air left in the tank, and for this reason is used a great deal, as it is not fatiguing to operate same.

Continuous Sprayer (not postpaid)-----\$1.25  
 No. 432 Hudson Continuous Sprayer (not postpaid) .75

## Lowell Powder Gun



**Lowell Powder Gun**—This sprayer is easy of operation. Fill reservoir with dry powder, such as Hammond's Slug Shot, Bug Death, Paris Green, Hellebore, Powdered Arsenate of Lead, etc. Size of spray regulated by operation of plunger. Elbow reversible, enabling operator to spray up or down. Price, \$1.00.



A strong constructed, very efficient duster for the home gardener. Dusts any kind of powder. Weight, 1 pound. Each 40c.

## Duster Brown No. 2



A very practical, inexpensive duster of new design. It is of simple construction, single acting. **USES**—For spraying dust on small garden plots, rose bushes or in any place where dust is to be applied in small quantities. It is especially adaptable for use in applying insect powders. Shipping weight, 3 lbs. 1-qt. size, \$1.25.

## Brown's Atomist



The Atomist Lacquer Sprayer is adaptable for use in touching up around the house—for spraying furniture, small work automobile fenders and especially for quick touch-up jobs. The leather diaphragm prevents lacquer from clogging in the spray head and the removable valve cap on top of pump cylinder permits cleaning of ball valve. Made with lithographed pump cylinder and glass tank. This sprayer can also be used with disinfectants and insecticides. A valuable Sprayer around the home. Capacity one quart. Lithographed tin cylinder, glass tank, each \$1.25.

## \*The G-V Continuous



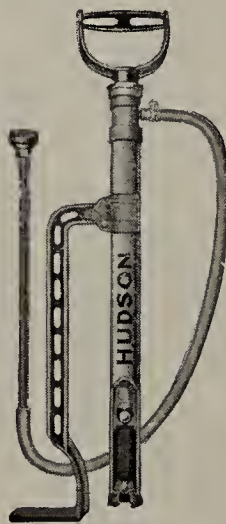
The G-V Continuous Variable All-in-One Sprayer is the only sprayer on the market that can be used as a fire maker, pipe thawer, flame sterilizer and oil generator besides being a perfect sprayer for insecticides, disinfectants, lubricating oil, paints and lacquers.

G-V No. 1—Tin-----\$1.50  
 G-V No. 2—Brass----- 2.50

## Hudson Bucket Pump

The best all-around Bucket Pump on the market. Made of good heavy material, and will last a life-time. It is the best all-around pump for the average poultryman-----\$3.50

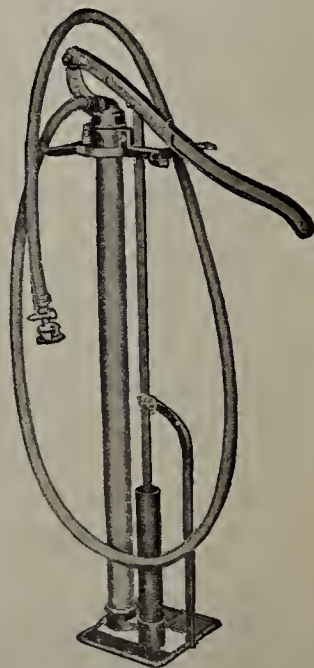
Shipping weight 7 lbs.



## Brown Barrel Spray Pump

**Brown's Auto-Spray No. 4**—Because of its special design this pump is light in weight and consequently it is comparatively inexpensive. However, it is durable and sturdy in construction. Auto-Spray No. 4 accommodates one lead of hose although it can be used with an attachment for using two nozzles in a cluster. The long air chamber stores up reserve pressure so that nozzle throws a long continuous spray. Agitator is automatic in operation and functions as long as the pump is being operated.

Pump cylinder 1½ inches in diameter. Valves at bottom of pump are of brass and are in a brass casting. Plunger head brass. Casting on top of pump and air chamber of iron. Packing is a graphite composition. Shipping weight 25 lbs. Price \$12.00.





Hudson Barrel Spray Pump



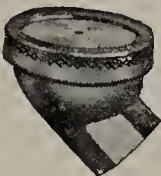
In our No. 4, we have developed a pump that will meet every requirement of a permanent Barrel Pump. It is powerful, light and durable and will develop better than 250 lbs. pressure with ease. Can be used with either one or two lines of hose.

No. 4A—Outfit consists of No. 4 Pump, 6 ft. 3/8-in. Sprayer Hose, Fog Nozzle, and a 4-ft. extension rod. \$12.50.

Angle Fog Nozzle

This nozzle is especially recommended for spraying the underside of the leaves of vine crops.

Each, 75c.



Vermorel Orange Duster

Annoyance and loss of time due to choking is entirely eliminated through correct agitation insured by the brush agitator.

Single action, bellows type.

Very light and compact in construction. Weight 11 pounds; capacity, 6 quarts—9 to 15 pounds of material.

Price, \$12.00

Vermorel Double Action Duster

For applying sulphur, arsenic of lead, calcium, arsenate, Bordeaux Mixture, nicotine dust, etc., either of these models will give excellent results.

Double action. Differs from Orange Duster principally in the fact that it functions both on up and down strokes, thus giving forth a semi-continuous flow.

Price ----- \$16.50

Hudson Perfection Sprayer

Has a tank made like a steam boiler. The all-riveted seams give the necessary strength for developing high pressure which is absolutely essential for good results. This all-brass pump is placed inside the tank and is easily removed.

For work of any kind requiring a high pressure compressed air sprayer the Perfection is supreme. It can be used around the house and yard, in the barnyard and outhouses, on truck farms, in vineyard, potato, onion and melon fields, and all sizes of orchards. Shipping weight 12 lbs.



- |                                     |       |        |
|-------------------------------------|-------|--------|
| No. 14G—Galvanized Tank, 2 1/2 Gal. | ----- | \$4.50 |
| No. 140B—Brass Tank, 2 1/2 Gal.     | ----- | 6.25   |
| No. 110G—Galvanized Tank, 4 Gal.    | ----- | 6.50   |
| No. 110B—Brass Tank, 4 Gal.         | ----- | 9.00   |

Hudson Economy Sprayer

HUDSON ECONOMY SPRAYER—Offers all the essentials of a high pressure compressed air sprayer at a minimum cost. Made of high quality material throughout, simplicity of construction with resulting lower costs permitting its attractive price. Adapted for all classes of work.

- |                                  |       |        |
|----------------------------------|-------|--------|
| No. 135 —Galvanized Tank, 4 Gal. | ----- | \$4.50 |
| No. 135G—Brass Tank, 4 Gal.      | ----- | 6.00   |
| No. 120G—Galvanized Tank, 2 Gal. | ----- | 3.50   |

Brown Auto Spray

Has a tank made of heavy non-corrosive sheet brass or galvanized steel, air pump and syphon tube of seamless brass tubing; pump handle of sturdy malleable iron. The air pump located inside solution tank is made absolutely airtight by a locking device of collar and locking nut of brass. Capacity of tank 3 1/2 gallons. Shipping weight, 12 lbs.

No. 9B—Brass tank-----\$9.00

No. 9D—Galvanized tank-----6.50

No. 50D—Galvanized 2 gal. ----- 4.50

Shipping weight, 7 lbs.



Vermorel Eclair No. 1 Knapsack Sprayer



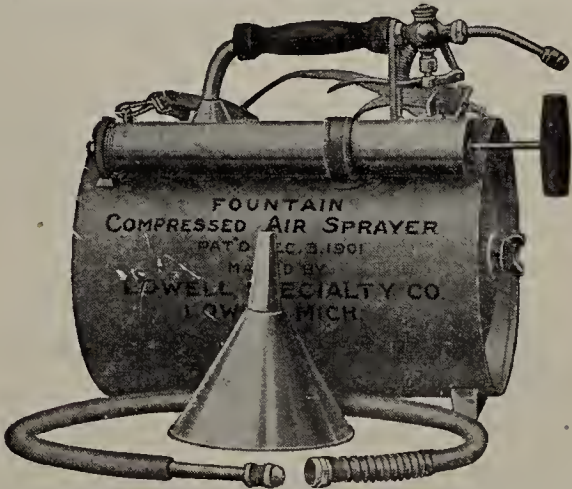
Has no plunger nor complicated mechanism. Its simple diaphragm pump eliminates the usual pump troubles. Pressure can easily be maintained at 40 lbs.

In reliability, efficiency the Eclair No. 1 has no equal. Its ease of operation makes spraying a pleasure.

Furnished in either brass or copper.

Price, \$16.50

Lowell Compressed Sprayer



The Lowell Fountain Compressed Air Sprayer is well adapted for the fruit grove, farmer, stockman, poultryman, florist, and for use of general disinfectants. It is the strongest small tank sprayer ever made, being constructed of heavy sheet brass or galvanized steel.

No. 110—Galvanized Tank, 3 Gal.-----\$6.50

Shipping weight, 12 pounds.

LOWELL BABY FOUNTAIN COMPRESSED AIR SPRAYER

Capacity of tank, one gallon.

No. 120—One Gal.-----\$4.50



Flower Pots

We pack as carefully as possible but they are shipped at purchaser's risk of breakage. Shipping charges not prepaid. Add 20% to these prices for packing charges.

Each		Each	
2 in.	-----\$0.03	9 in.	-----\$ .35
3 in.	----- .03	10 in.	----- .40
4 in.	----- .05	12 in.	----- .75
5 in.	----- .06	14 in.	----- 1.15
6 in.	----- .10	16 in.	----- 1.50
8 in.	----- .20		

Pot Saucers

Each	
4 in.	-----\$0.04
6 in.	----- .05
8 in.	----- .10
10 in.	----- .15
12 in.	----- .20
14 in.	----- .35
16 in.	----- .40



Fern or Begonia Pots

They are not so deep as the regular flower pots and are used a great deal for growing Ferns and Begonias in; also Asparagus Plants, etc.

Each		Each	
6 in.	-----\$0.10	12 in.	-----\$0.40
8 in.	----- .15	14 in.	----- .55
10 in.	----- .25	16 in.	----- .75

Stone Jars With Lids

Splendid for preserving or pickling meats, kraut and cucumbers, etc.

Each		Each	
1 gallon size	-----\$0.35	6 gallon size	-----\$1.55
2 gallon size	----- .55	8 gallon size	----- 2.00
3 gallon size	----- .80	10 gallon size	----- 2.25
5 gallon size	----- 1.35		

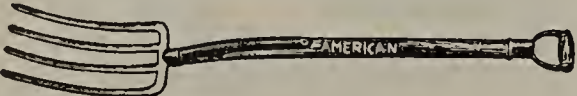
SPAGNUM MOSS

Used for hanging baskets of packing plants or bulbs for shipping purposes.

Lb., 30c

Garden Tools

FOUR FINE SPADING FORKS



Old X—Spading Fork. Four tempered steel tines. Strap ferrule. Iron D handle. \$1.25 each, shipping weight, 5 pounds.

Old S. P.—Spading Fork. Similar construction as Old X a little lighter built. \$1.00 each, shipping weight, 5 pounds.

Jumbo—Spading Fork. Four tempered steel tines. Iron D handle, Strap Ferrule. One of the best built forks on the market. Shipping weight, 6 pounds; \$2.25 each.

Steel Garden Hoes



R7—Shank Pattern, Standard Quality, Strong and Durable, Tempered 7-inch Steel Blade, 4 1-3 foot hardwood handle. 65c each; shipping weight, 3½ pounds.

SMO 8—Solid Socket Steel Garden Hoe. Tempered 8-inch steel blade, one-piece steel socket. Selected 4 1-3 foot hardwood handle. \$1.00 each; shipping weight, 3½ pounds.

No. 2P—Weeding Hoe. Sheet steel blades, iron shanks, 3-inch blade. Two prongs, 4½ foot handle. 60c each; shipping weight, 2½ pounds.

No. 1P—Weeding Hoe. Sheet steel blade. Iron shank, 3-inch blade, one prong, 4½-foot handle. Shipping weight, 2½ pounds; 60c each.

Steel Garden Rakes



SB14—Steel Garden Rake. 12 spring tempered teeth. Hardwood handle. 65c each; weight, 2½ pounds.

B14—Solid Bow Steel Rake. 14 curved teeth spring tempered. 5½-foot hardwood handle. \$1.00 each; shipping weight, 3½ pounds.

Moe's Garden Trowels

No. 80 — Garden Trowel. One-piece pressed steel. Handsomely finished in baked enamel. Length of blade 6 inches. Ground and polished points. Each, 20c, shipping weight, 8 ounces.



Moe's Transplanting Trowels

No. 81—Transplanting Trowel. One-piece pressed steel. Handsomely finished in black and baked enamel. Length of blade, 6 inches. Width 1¼ inches. Ground and polished points. Each, 20c; shipping weight, 7 ounces.



Moe's Garden Weeder

No. 82—Garden Weeder. One-piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers, and is one of the most useful and handiest garden tools made. Ground and polished points. Each, 20c; shipping weight, 7 ounces.



Long Handle Shovel



No. KL02—Knox-All No. 1 Northern Ash handles. Blades 9½x11¼ inches, weight 5 pounds each. \$1.40 each; shipping weight 6 pounds.

Hedge Shears

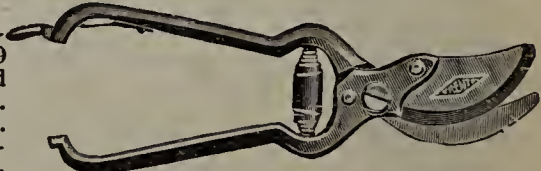
Blades hand forged crucible steel, notched, off-set shank. Tangs bolted clear through the wooden handles.



6 inch, Plain Handle, weight 4 pounds	-----\$0.75
6 inch, Polished Handle, weight 4 pounds	----- 1.00
8 inch, Plain Handle, weight 5 pounds	----- 1.10

Pruning Shears

California pattern. Length, 9 inches, tempered tool steel blade. Volute spring. Adjustable ratchet nut. Black Japanned handles. Weight 1 pound.



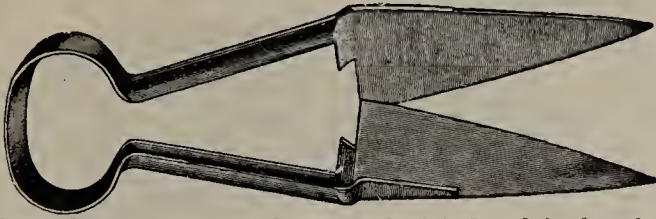
No. 313-----Each, \$1.00



## Pruning Saw

**PRUNING SAW**—The ideal saw for pruning, having a 15-inch curved blade. \$1.25 each.

## Grass Shears



Hand forged from cutlery steel. Blades 6 inches long, ground and set, and full polish.

Plain Hand Forged, weight 12 ounces.....\$0.35  
Polished and Hand Forged, weight 12 ounces......50  
Keen Klip Grass Shears, weight 1 pound..... 1.00  
Doo Klip Grass Shears, weight 1 pound..... 1.25

## Rubber Garden Hose



50 ft. 1/2 inch Comcl. 4-ply, weight 9 lbs.....\$4.00  
50 ft. 1/2 inch Leader 5-ply, weight 11 lbs..... 4.25

### MOLDED RUBBER GARDEN HOSE—SEAMLESS NON-KINKABLE—DURABLE

Made with two seamless double braided jackets over a tube of high grade rubber incased in a heavy moulded rubber outside cover. We recommend this hose for long service.

50 ft. 1/2 inch Molded, 12 lbs.....\$4.50  
50 ft. 5/8 inch Molded, 13 lbs..... 5.00  
50 ft. 3/4 inch Molded, 17 lbs..... 5.50

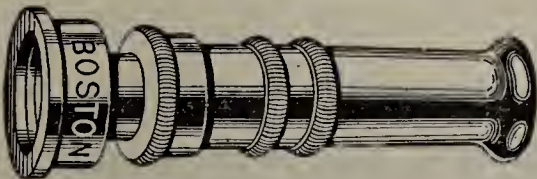
Add 25c for couplings if wanted in 25-ft. length.

Clincher Hose repair, weight 2 ounces.....\$0.10  
Clincher Hose coupling, weight 4 ounces..... .25

## Rubber Hose Washers

Made of good grade rubber, will fit 1/2 and 3/4 inch hose. 10c per dozen. Weight 2 ounces.

## Hose Nozzles



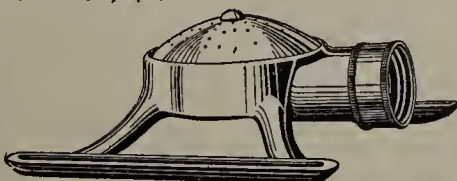
**HOSE NOZZLE**—Boston Pattern Brass Hose Nozzle. 75c each; shipping weight 10 ounces.

**PEORIA**—Same pattern as Boston but lighter construction. Shipping weight, 8 ounces. 65c each.

## Garden Sprinklers

**BROWN'S READY SHOWERS**—Is a very desirable Lawn Sprinkler where a revolving sprinkler is not required. The base is made of malleable iron and is not easily broken; the perforated top is made of heavy sheet brass, as is hose coupling. We recommend this sprinkler for use in sprinkling flower beds, strips and along the borders of walks. Can also be used in the hand as a rose nozzle. Each, \$1.00.

**RING SPRINKLER**—Made entirely of brass and distributes water evenly over a large area. 85c each. Shipping weight, 2 pounds.



**REVOLVING SPRINKLER**—Can be used as a revolving or stationary sprinkler with adjustable tip to throw a misty or solid stream of water.....Each-\$2.25

## Cyclone Seed Sower



A machine of very simple construction. This seeder will sow any seed that is sown broadcast, such as Oats, Wheat, Rye, Millet, Clovers, Grass Seeds, etc. It can be very easily adjusted to suit the seed being sown. We sell a world of them every year and our customers say they give good satisfaction. \$2.25 each, customers paying transportation charges. Mailing weight, 6 pounds.

## Master Rapid Plant Setter

Makes transplanting a pleasure instead of a labor. Will set, water and cover in one operation, such plants as Cabbage, Cauliflower, Celery, Pepper, Tomato, Sweet Potatoes and Strawberries. One man can set 10,000 plants daily. You work in an upright position all the time; no stooping and no lame backs. Each \$6.00. Shipping weight 7 pounds.



## Hudson Garden Plow



A counterbalance plow, with a 24-inch high wheel made of the very best material and most careful workmanship. This is a good strong, durable tool and can be used in the largest gardens. Is very popular and the best of its kind. Shipped with tools as shown. Weight 28 pounds.

No. 242, each \$3.75

## POULTRY LITTER

In General Use by Progressive Poultrymen

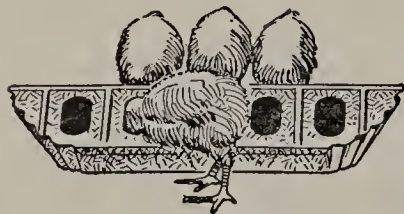


This litter does away with the lack of sanitation that is usually evident in poultry houses. It is a labor-saver; prevents dampness; is absolutely sanitary, prevents the spread of disease, absorbs offensive odors; keeps the birds clean; makes an ideal dust bath; keeps the house warmer in winter and cooler in summer. It is economical. Though the original cost may be slightly higher than other litters, it outlasts others two or three times and saves the labor of handling. It prevents fire because it will not blaze. It takes an intense heat even to make this litter smoulder. After being used in the poultry house, it makes a most valuable fertilizer. Many poultrymen sell their O. K. Poultry Litter manure mixture to gardeners, florists and nurserymen at a high price. It does not injure the birds if eaten. One bale will cover 240 square feet with 1-inch of litter. Bales weight approximately 140 pounds. \$3.00 per bale, f.o.b., San Antonio, Texas.



# POULTRY SUPPLIES

## \*Oakes' Chick Feed Troughs



These troughs are ideal for feeding chick starter to baby chicks. Trough is stamped out of one piece of heavy galvanized steel without seams. Very easy to keep clean. The grate is a separate piece and slides on and off easily. Prevents waste of

feed. Made of galvanized steel for dry feed and heavy charcoal tin for feeding milk.

### MASH FEEDER

- \*No. M-71—Galvanized, 10 inch, each.....25c
- \*No. M-72—Galvanized, 20 inch, each.....40c
- \*No. M-71A—Tin, 10 inch, each.....30c
- \*No. M-72A—Tin, 20 inch, each.....50c

## \*Oakes' New Chick Trough



A new inexpensive chick trough. Made of galvanized iron with galvanized cross wire welded on. Ends are soldered on so that trough can be used for either feed or water. Easy to fill and clean. Cross wire prevents chicks from getting into trough or soiling feed.

- \*No. M-51, 24-inch, each.....30c
- \*No. M-51A, 24-inch, each.....35c

## Hudson Round Chick Feeder



A great feed saver and can also be used for water or milk. Accurately stamped with dies. Top fits snugly, yet is easily taken off for filling and cleaning.

- No. 11E—Enameled, 6 inches, with 8 holes.....Each 12c  
Shipping weight, 1 pound.
- No. 12—Diameter 8¼ inches, with 12 holes.....Each 25c
- No. 12E—Enameled, 12 inches, with 12 holes.....Each 25c  
Shipping weight, 1 pound.

## \*Oakes' Feeder For Growing Chicks



Made of steel, 4 feet in length, capacity about 12 qts. Wires 2 inches apart prevent fowls getting into trough.

- No. M-6A—Without lid .....Each \$1.75

## \*Oakes' Inexpensive Chick Feeder



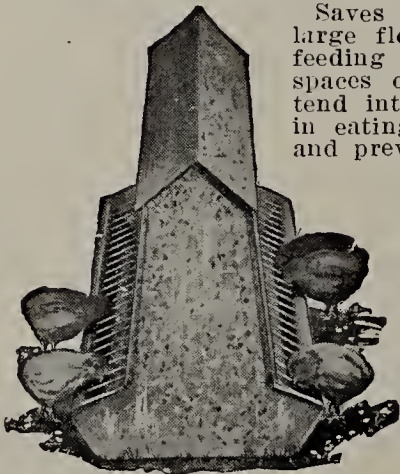
This feeder is made in three sizes, 21 inches, 35 inches and 42 inches in length. Sloping top prevents roosting and slides off for filling or cleaning. V-shaped bottom throws feed toward the outside and prevents clogging. 21-inch size has 32 feeding spaces; 35-inch size has 50 feeding spaces; 42 inch size has 68 feeding spaces.

- No. M- 36—21 inches.....\$1.20
- No. M- 37—35 inches.....1.75
- No. M-375—42 inches.....2.25

### ROYAL FEEDER (Similar to Cut)

- No. 63—36 inches.....1.50

## \*Oakes' Capacity Chick Feeder



Saves time, labor and feed for large flocks of chicks. Double feeding space with 25 feeding spaces on each side; wires extend into hopper so that chicks in eating shake down the mash and prevent clogging; hinged lid on top; capacity, 45 lbs. of mash; length, 30 in.; height, 12 in.; width at bottom, 11 in.

- \*No. M-800—As shown above, each, post-paid .....\$4.20\*
- \*No. M-484—48-in. size, capacity 75 lbs., post-paid .....\$6.00\*

## \*Oakes' Growing Chick Feeder



This new feeder is decidedly popular in all parts of the country for feeding dry mash and all kinds of ground feed to growing chicks and mature fowls.

Grills from the top. Feed flange can be raised or lowered to feed either fine or coarse feed. Feed cannot be thrown out and wasted. Cannot clog, as all feed is forced out under the openings by the V-shaped bottom. Chicks feed from both sides. Lid is hinged. Tippler prevents roosting on top.

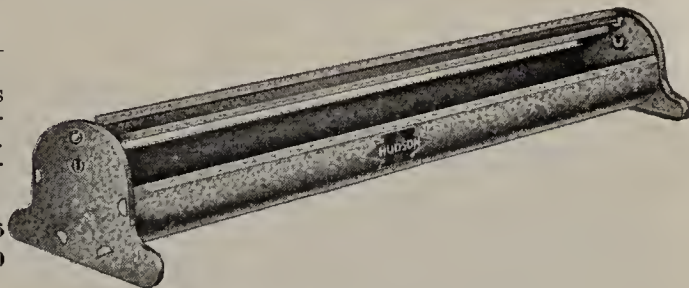
- No. M-29—Length 35 inches.....\$3.00
- No. M-30—Length 42 inches.....3.90



## \*Chick Trough with Reel Guard

This popular type of trough is 2 inches deep and 3½ inches wide. Revolving reel has 4 plates with rounded edges to prevent injury of chicks. Chicks cannot roost on this feeder. Turned edge of trough prevents feed waste. Reel is adjustable. Permits using trough for different sized birds.

No. M-724-----\$0.35  
No. M-736-----.50



## \*Oakes' Mammoth Round Feed Hopper

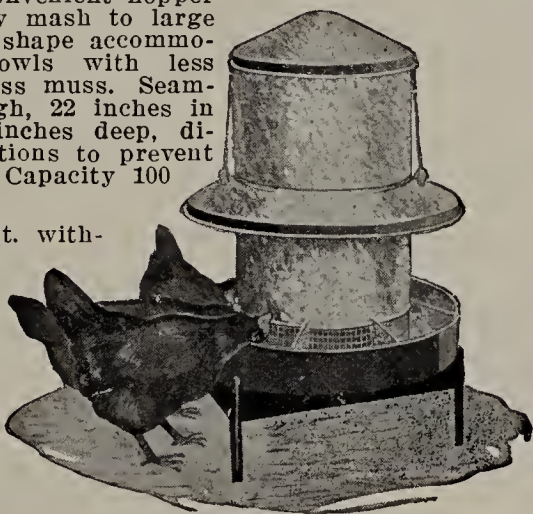
A compact, convenient hopper for feeding dry mash to large flocks. Round shape accommodates more fowls with less fighting and less muss. Seamless steel trough, 22 inches in diameter, 3½ inches deep, divided by partitions to prevent waste of feed. Capacity 100 pounds.

\*No. M10—65 qt. without stand \$7.50.

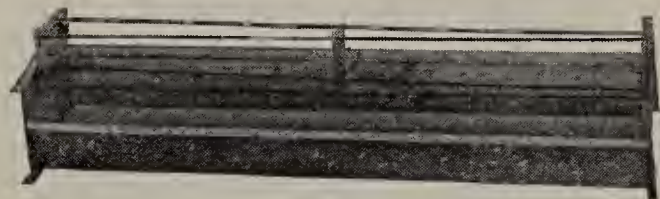
\*No. M11—65 qt. with stand as shown \$8.25.

\*No. M511—36-quart without stand \$3.50.

\*No. M510—36-quart with stand \$4.00.



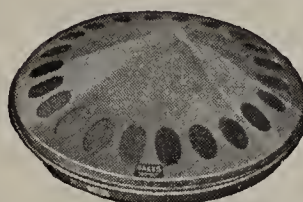
## \*Oakes' New Feed Trough For Large Flocks



This feeder has a revolving reel of galvanized strips to prevent hens from getting into trough and scratching feed out. Easy to clean. Four foot length holds 1 bushel of dry mash. Eight foot length holds 2 bushels.

\*No. M-26—48-inch, each-----\$3.00  
\*No. M-27—96-inch, each-----5.00

## \*Large Round Buttermilk Feeder



It is 12 inches in diameter and 1¾ inches deep. Holds three pints of liquid food. Made from heavy dairy tin; rustproof; has 22 feeding holes making 36 inches of feeding space. Chicks cannot waste the feed or get in it and get wet or contaminate the feed.

or liquid. Top is cone-shape to prevent chicks from getting on it. Easy to take apart for cleaning.

No. M-82—Each-----\$0.75

## \*Oakes Best-Yet Self-feeder



Saves poultryman's time, labor and feed. Strong and durable. Made of heavy galvanized steel. Fowls feed from either side, thus doubling feeding space. Length, 36 inches; capacity, 100 pounds. Stand elevates feeder 16 inches from floor. Has adjustable grate which feeds any mash uniformly. Provided with hinged lid over both hopper and trough,

making it rat, mouse and dirt proof. Great feed saver.

\*No. M-55—With stand as shown above, each-----\$10.75

## \*Oakes' Feeder For Large Flocks



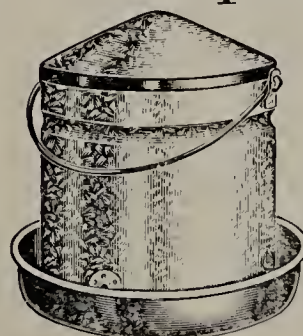
Capacity with minimum expense. Lighter in weight and more sanitary than troughs made of lumber. Wires are 4 inches apart to prevent wasting feed. The 8-foot

trough has a capacity of 2 bushels, the 4-foot 1 bushel.

\*No. M-1A—Without lid, 96-inch-----\$4.80  
\*No. M-4A—Without lid, 48-inch-----2.60

## \*Keep Warm Thermo Fountain

FOR CHICKS OR HENS



Insulating jacket or outer tank of the Keep Warm Thermo Fountain is an inch thick—all the way down. The top is insulated. There is also a complete layer of insulation as well as a dead air space below and all around the water in the pan. The only water surface not insulated is that which has to be left open for the fowls to drink.

No. M-3—Capacity 3 gals., weight 19 lbs.-----\$4.35  
No. M-5—Capacity 5 gals., weight 24 lbs.-----5.25

## \*Improved Handy Hopper

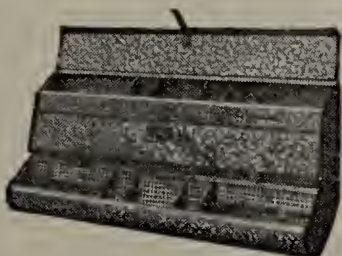
Hinged lid keeps out rats, mice and dirt. Swinging front, adjustable to any kind or dry mash, eliminates clogging. Hopper 15 inches high, 4½ inches wide, and made in four lengths.

\*No. M-12, length 12 inches-----\$1.75

\*No. M-13, length 18 inches-----2.25

\*No. M-14, length 24 inches-----2.75

\*No. M-15, five compartments, length 36 inches-----3.90



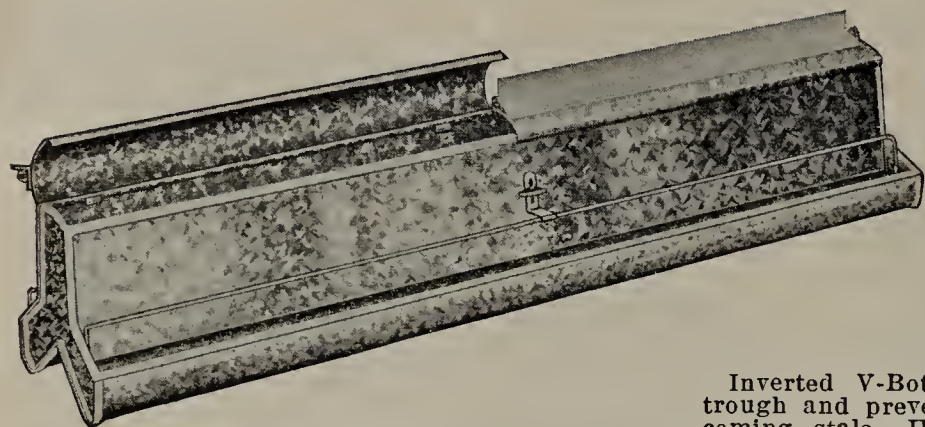
## \*Oakes' Never Dry Waterer

Automatically controlled flow of water. Easily attached to hose or water pipe. Will take care of large or small flock. Nothing to get out of order. Fowls cannot scratch dirt or litter into it, nor get into the water, or roost on this device.

No. M-34—Each-----\$4.90







**\*Wire Guarded Chick Feeder**

With Adjustable Wire Guard

This feeder will accommodate a large number of chicks at one time. The open trough principle is featured in this feeder. It accommodates a larger number of chicks at one time than a covered trough with individual feeding holes. The wire bar extends the full length of the trough. Adjustable up and down to regulate the width of the feeding space from chick size up to pullet size.

Inverted V-Bottom throws all the feed forward into the trough and prevents it from gathering in the center and becoming stale. Hinged lid makes it easy to clean and fill. Tilting device prevents roosting on top.

No. M-621—21 inches long, 11-qt. capacity, weight	5 lbs.	-----	Each	\$1.05
No. M-635—35 inches long, 18-qt. capacity, weight	8 lbs.	-----	Each	1.50
No. M-642—42 inches long, 21-qt. capacity, weight	10 lbs.	-----	Each	2.00

**\*Roost Proof Flock Feeder**

Saves Feed and Keeps It Fresh and Clean

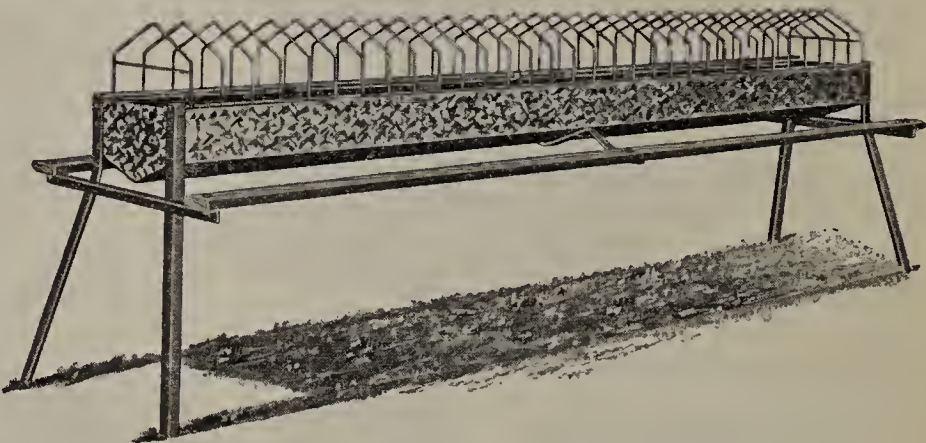
The Roost Proof Flock Feeder has a V-bottom trough, which prevents the accumulation of feed in the corners. The vertical portion of the wire guard prevents birds from getting a foothold on the edge of the trough and fouling the feed with their droppings. The roost-proof wire guard is hinged and can be tipped back for easy cleaning and filling of the trough.

The perches are 21 inches high, far enough above the floor to prevent vent-pecking.

The Roost Proof Flock Feeder provides a long feeding space, because the birds have access to the feed from both sides of the large trough; at the same time it sets up high enough so that the hens can range back and forth below the feeder without interference.

This trough is 10 inches wide, 6 inches deep at the center and 4¼ inches deep at the sides. Made in 3 lengths.

No. M-960—60 inches long	-----	Each	\$6.20
No. M-996—96 inches long	-----	Each	\$8.30



**Hawes' Automatic Water Valve**

THESE SIMPLE VALVES SOLVE THE WATERING PROBLEM



for watering  
poultry and  
small stock

At last, a trouble-proof water valve that works automatically! It is so simple in design, so perfect in operation you will marvel you did not think of it yourself. Easy to attach—nothing to get out of order. A hollow metal float rests on the surface of the water, and as level rises and falls, valve automatically closes and opens. This insures a constant supply of pure, clean drinking water—a vital factor in successful poultry and small stock raising.

Simplicity.	Each	-----	\$1.00
Combination with individual shut-off	-----	each	1.25

**\*Never Dry Chick Waterer**



Connects with city water pressure or storage tank or barrels, providing a continuous supply of fresh water at all times. Float valve regulates flow. Perforated

cover protects water and 25 holes allow plenty of drinking space.

No. M-21—Weight 4 lbs.	-----	Each	\$1.95
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**Glass Pan Fountain**

FOR USE OF MASON JARS

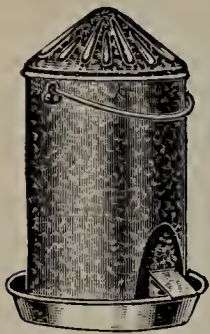
The drinking pan is of heavy glass with smooth edge. The Mason jar screws into the metal clip and is held firmly in position. The clip snaps over the outer edge of the pan. Jar and pan are quickly detached from the pan for filling or cleaning. An ideal fount for feeding buttermilk or medicated water. Saucer is 6 inches in diameter. Chicks cannot get into the pan.

No. 65-G	-----	Each	\$0.15
(Glass Jar Not Included)			



All poultry supplies are quoted f.o.b. San Antonio. If you desire same sent by parcel post, kindly include postage with your order.





## \*Valve Float Waterer

When this fountain needs filling all you have to do is lift the lid and pour the water in. An automatic float regulates the depth of the water in the drinking trough which extends all around the tank. Can't overflow and never runs dry as long as there is water in the tank.

Top-filled, sanitary and easy to clean.

No. M-505—Without heater, 5 gals.—\$3.50

No. M-512—Without heater, 12 gals.— 6.00

## \*Leader Water Fountain

For Hens and Growing Chicks

This new type of fountain is made in two sizes—two-gallon and three-gallon capacity—just the right size to be easy to handle and at the same time provide an adequate water supply. It can be used for baby chicks, growing chicks or full grown birds because the bottom pan is properly shaped to prevent the chicks from getting into the trough but it's deep enough for the use of hens.

No. M-102—2-gallon Leader Fountain-----Each \$1.05

No. M-103—3-gallon Leader Fountain-----Each 1.35



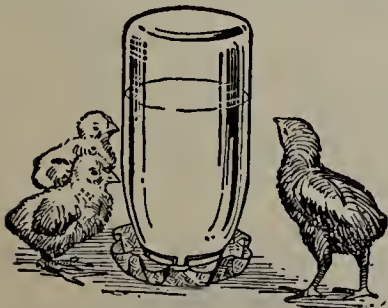
## \*Oakes' Jar Fountain

Made from 2 materials, extra heavy galvanized iron, charcoal tin. No solder used; very substantial pan with heavy rolled edge; electric welded center; can be used for chick feed as well as water. Charcoal Tin Fountain is designed for dispensing buttermilk and sour milk especially. We do not furnish the glass jars.

No. M-69—Galvanized; shipping weight 8 ounces;  
Each-----\$0.10

No. M-69A—Charcoal Tin; shipping weight 7 oz.;  
Each-----.12

## \*Oakes Automatic Fountain and Feeder



A sanitary automatic device for water, grain, grit, etc. Fits half-gallon, quart or pint Mason jar. Pan is hinged to wire so it is not necessary to remove can in order to refill it.

No. M-68G—Galvanized,  
each-----10c

No. M-68T—Charcoal  
Tin; each-----12c

## Oakes' Buttermilk Feeder

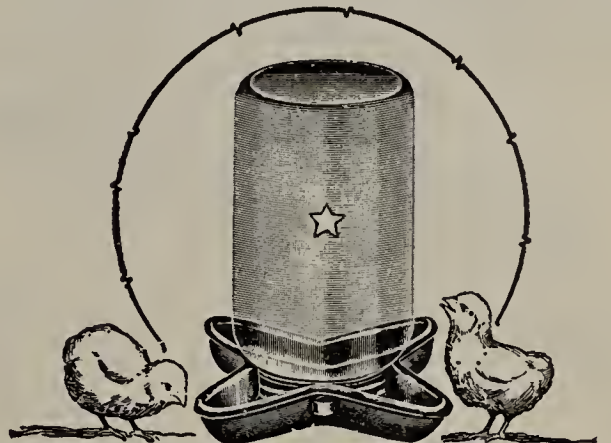
A perfect feeder for sour milk, buttermilk, water, hard grain or grit. The container is made of aluminum, the only metal in which sour milk can be fed with safety. It is rust-proof and non-corroding. The Handy is adjustable, simple to operate and durable. Shipping weight, 1 lb.

Each 30c



No. M-70B—Holds ½-gallon jar.  
No. M-70A—Holds 1-quart jar.

## \*Star Fountain and Feeder



Made of a single piece of heavy metal. No solder, no seams, no loose parts, chicks cannot drown. Fits any Mason Jar, in 1-pint, 1-quart and 2-quart sizes.

No. 32—(Glass jar not included); shipping weight  
6 ounces-----Each \$0.10

No. 132—Star Buttermilk Feeder-----Each .12

## \*Oakes' Bottom Filled Fountain

Consists of a cone-shaped can and a stamped pan, which forms trough from which fowls drink. Both parts made of galvanized sheet steel and well soldered.

\*No. H-78—1 Quart, each-----\$ .30

\*No. H-79—2 Quarts, each-----.45

\*No. H-80—3 Quarts, each-----.60

\*No. H-45—4 Quarts, each-----.75



## \*Oakes' Snap-On Gallon Fount

Made from heavy galvanized iron in two pieces. Top made with handle for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling.

No. L-100B—1 gallon; shipping  
weight 4 lbs.-----Each 60c

No. L-100C—2 gallons; shipping  
weight 6 lbs.-----Each 95c





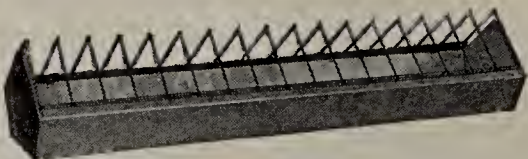


**\*Double Wall E-Z Fill Fountain**

The heavy ball makes it convenient to carry water in the outer tank, but is held up out of the way when the waterer is in use.  
This waterer is easy to fill and clean and can be furnished with a heater for winter use.

- No. M-31—3-gallon size-----Each \$2.00  
No. M-32—5-gallon size-----Each 2.50

**\*Grill Top Broiler Feeder**



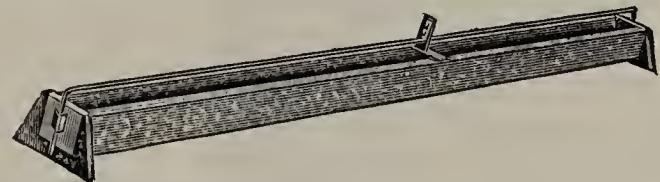
A convenient and durable feeder for growing chicks. The galvanized wire grill is hinged and swings back for filling and cleaning.  
Trough is 6¾ inches wide and 3 inches deep. It is made in heavy galvanized iron or in bright charcoal dairy tin for milk feeding.

- No. M-39 —30 inches long, galvanized----Each \$1.15  
No. M-3942—48 inches long, galvanized----Each 1.50  
No. M-40 —28 inches long, dairy tin-----Each 1.45  
No. M-4042—42 inches long, dairy tin-----Each 1.80

**\*Square Bottom Non-Tip Feed Trough**

For Baby Chicks and Growing Chicks

Made of heavy galvanized steel with spot welded ends. Wire guard running the length of the trough is adjustable. It can be lowered to keep baby chicks out of the trough, slightly raised for growing chicks and raised still higher for broilers and even for hens.  
Because of the square bottom construction it is practical to set this trough up on bricks or board blocks as it cannot be tipped over if it happens to dislodge at either end.



- No. M-624—24 inches long-----Each \$ .40  
No. M-636—36 inches long-----Each .50  
No. M-648—48 inches long-----Each .65  
No. M-660—60 inches long-----Each .80

**Non-Splash Buttermilk Fount**

Ideal for clabber or buttermilk because it prevents spilling when being inverted after filling. Eight-hole pan. Best grade fire stoneware, glazed inside and out.  
No. S-1—One gallon, 90c value-----\$0.75

**\*Hanging Type Mash Hopper**

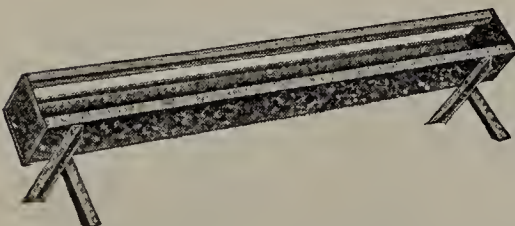
This style hopper can be suspended from rafter in the laying house. It has very large capacity in proportion to the small space that it occupies.  
The seamless bottom pan is 3½ inches deep and 16 inches wide. It provides more than 50 inches of trough space. The magazine is 16 inches high and 10 inches in diameter. It holds more than 32 quarts.

This feeder positively will not clog. The pans is attached to the magazine by three short lengths of chain. The jostling of the pan, as the hens eat, works the feed down into the trough. The feed pan has a turned edge which prevents feed from wasting.

- No. M-110—Hanging Mash Hopper, 32-qt. capacity, weight 10 lbs.----Each \$2.85



**\*Floor Type V-Bottom Feeder**



This sturdy, sanitary floor type feeder has been thoroughly tried and tested in the houses of our foremost breeders. The revolving wood guard prevents birds from roosting on top.  
The trough is 5 inches deep and 8 inches wide at the top.

- No. MV-5—60 inches long-----Each \$2.40



## Oakes' Poultry Punch



A popular and practical punch. Makes a clean perforation and does not bruise the foot.

No. 38—Oakes' Punch, each, 2 oz.-----\$0.20

## Moe's Ideal Poultry Punch



A new improved punch. Works easily, cuts clean, and does not pinch the foot. Length 3½ in. Nickel plated.

No. 39—Moe's Ideal Punch;  
Each -----\$0.35

## \*Bandettes

Bandettes are easily applied single-handed, simply open out Bandette, hook it on leg, and allow it to close around the bird's leg; should not fit tight.



Bandettes are made in 5 colors: blue, red, yellow, green and pink.

Two sizes: No. 9 for Leghorns, and No. 11 for Rocks, Reds, etc.

Bandettes are sold in unbroken sets of 25 in one color: 1-25, 26-50, 51-75, 76-100, and so on.

25	-----\$	.60
50	-----	1.10
100	-----	2.00
500	-----	9.50
1000	-----	18.00

## \*Colored Leg Bands



Made of celluloid, in fast colors. Keep their shape. Light in weight and very durable. Quickly put on or removed. Put up regularly 50 bands or a size and color in a bundle. Colors: white, black, red, pink, green, blue, purple and yellow.

	50	100	1000
No. 4—For Baby Chicks-----	\$0.25	\$0.40	\$3.50
No. 7—For Bantams-----	.35	.60	5.00
No. 8—For Leghorns and Anconas--	.35	.60	5.00
No. 11—For Large American-----	.40	.75	6.00
No. 12—For Asiatic Hens-----	.45	.80	6.50

## \*Wing Bands



Wing Bands—Double clinch open-----Each 1c; 100, 75c

## \*Economy Poultry Bands



Poultry Sizes. The Standard poultry sizes with two large black numbers from 1 to 100, with black ink on celluloid. Size No. 3 (for Leghorn hens), 3c each. Size No. 4 (for Rhode Island Red, Plymouth Rock, and Orpington Females, and Leghorn males). One-half inch wide, two and one-half inches long from slot to shoulder. 3c each; 100. \$2.25. Shipping weight, 8 oz.

## \*Aluminum Poultry Bands

Made of aluminum with stamped numbers.  
Open -----Each, 1c; 100, \$0.80  
Closed -----Each, 2c; 100, 1.75

## \*Moe's Aluminum Leg Bands

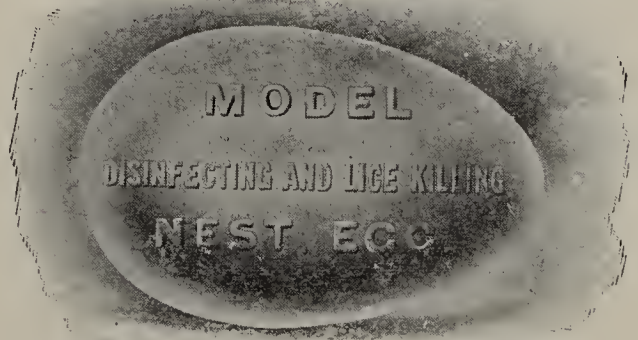


Made of sheet aluminum with large raised numbers, easy to read from a distance. Adjustable for any size fowl. Numbered 1 to 4999, as wanted.

12 bands-----	\$0.15	100 bands-----	\$0.75
25 bands-----	.25	500 bands-----	3.50
50 bands-----	.40	1000 bands-----	6.00

NOTE—We can get you any style leg band you desire and numbered up to 1,000. It will take from one to two weeks to fill these special orders. 25% of amount of order required when sending in order.

## Napthalene Nest Eggs



This egg is used not in reality as a nest egg, but is put into the nest to remove and kill the lice. If one of these nest eggs is placed in a nest with the nesting material, it will remove all vermin, if put in a corner of the nest under the setting hen, it will keep hen free from lice and mites.

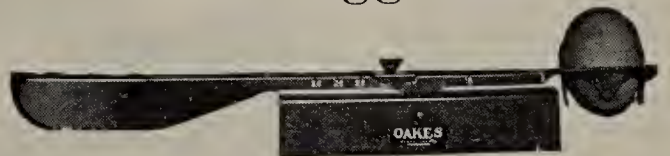
Weight 2 lbs., per dozen-----75c

## Glass Nest Eggs

Made of white porcelain, natural in appearance, and uniform in size. Will not easily break. They induce the hen to lay where she should—in the nest.

Weight 1 lb., per dozen-----30c

## \*Oakes' Egg Scale



In many localities eggs are now being bought and sold according to weight. Indiana has been using 22 ounces to the dozen eggs; just right for our No. F-53, while No. F-54 will fit any standard. Oakes' Egg Scales are durable (constructed of steel) and simple; no springs—nothing to get out of order.

No. K-55—Oakes' Graduated Egg Scale, each-----75c

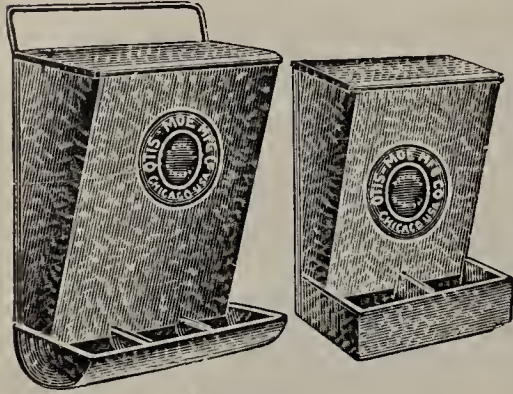
## Sure-Trip Trap Nest Front

The Practical Trap Nest is a profitable addition to every poultry plant, because it weeds out the drones and cuts down the feed bills for the man who wants to keep only those birds that produce. Strongly built of good lumber, as light in weight as consistent with strength and durability—with a trap that works noiselessly and surely. Each, 35c; 100, \$30.00. Weight, 1 lbs. each.





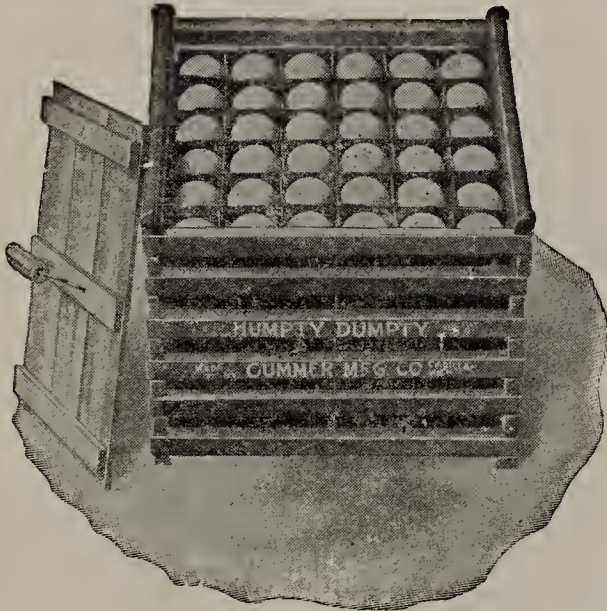
## Grit and Shell Boxes



Grit, shell and charcoal have now become a recognized essential part of the diet insuring healthy fowls. They cannot be more economically supplied than in one of our inexpensive compartment boxes. Can also be used as a feed hopper for little chicks.

- No. 45—For baby chicks, each-----\$0.45  
No. M73—For baby chicks, each----- .85  
No. 46—For grown birds, each----- 1.10  
Shipping weight, 3 lbs.

## Humpty Dumpty Egg Carrier



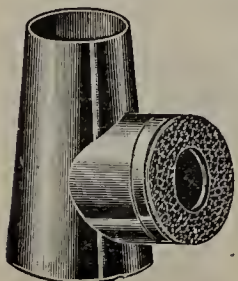
A very light, strong and convenient egg crate and carrier. Made of hard wood slots securely fastened. The lid with handle, springs into position when crate is filled. Collapsible, 12 dozen size. 90c; Parcel Post weight, 7 lbs.

## Yard Egg Boxes For Retail Trade

This is an ideal box for the retail egg trade, holding 1 dozen, presenting the goods to the customer in an attractive package with the minimum amount of trouble for the seller. They knock down in very compact shape.



- 3x4 Eagle, weight 12 lbs., per 100-----\$ 1.00  
3x4 Eagle, weight 105 lbs., per 1000----- 8.50  
2x6 Seminole, weight 17 lbs., per 100----- 1.50  
2x6 Seminole, weight 155 lbs., per 1000----- 13.50



## Oakes' Egg Tester

K-131—Used to test fertility of eggs during first week of incubation. Use on an ordinary lamp No. 2 burner, in a dark room. It will illuminate interior of egg so that you will know if the chick is alive. Also shows size of air cell. Each 25c.

Shipping weight, 1 lb.

## HATCHERY SUPPLIES

### Anderson Chick Boxes



The Original Anderson Master Breeder Baby Chick Pullman

Light in weight yet the strongest and safest chick box made. A very attractive checkered border box with a light blue inside liner. The result of 25 years' chick box building. Approved by all Baby Chick Associations.

#### REGULAR SIZE

- 25-chick size, each-----\$0.10  
50-chick size, each----- .15  
100-chick size, each----- .20  
25-chick size, 25 to bundle; each----- .05½  
50-chick size, 25 to bundle; each----- .07½  
100-chick size, 30 to bundle; each----- .11

#### HOT WEATHER BOXES

- 50-chick size, 25 to bundle; each----- .08¼  
100-chick size, 30 to bundle; each----- .12

Lots of 300 or more, assorted sizes, deduct ½c per box. 600 or more, deduct 9/10c per box.

#### 100 LOCAL DELIVERY BOXES

- 100-chick size, 30 to bundle; each----- .09½

#### LOCAL DELIVERY BOXES

- 15-chick size, 100 to bundle----- 2.25  
25-chick size, 100 to bundle----- 2.50

#### THREE WEEK BOXES

- 25-chick size, 15 to bundle; each----- .24  
50-chick size, 10 to bundle; each----- .36

#### STAPLERS AND STAPLES

- ACME No. 1—Hand Powered Stapler, holds 100 staples, automatic feed, anti-clogging device. Shipping weight 9 lbs. Price-----\$7.25  
No. 1—Staples for same, box of 5,000----- 1.35  
No. 61—Staples, box of 5,000----- 1.60  
Tin Hand Staples, per box of 1,000----- .90  
Piercing Tool for use with tin or copper coated staples, to guide the staples into the box. Each\_\_\_ .40  
Master Breeder 6-in. Redwood Sticks, per 1,000\_\_\_ 4.00  
Master Breeder Stick Glue, per 1-gal. can----- 1.25  
Master Breeder Stick Glue, per 5-gal. can----- 5.00  
Wood Wool Pads, per 1,000----- 9.00



## Anderson Egg Boxes for Shipping

Made of extra heavy corrugated cardboard; built so as to stand rough handling and carry your setting eggs safely.

- 15-egg size, weight 1½ lbs., each-----\$0.30  
15-egg size, weight 15 lbs., doz.----- 3.00  
30-egg size, weight 2½ lbs., each----- .35  
30-egg size, weight 26 lbs., doz.----- 3.60  
50-egg size, weight 3½ lbs., each----- .50  
50-egg size, weight 39 lbs., doz.----- 4.50

## Eclipse Egg Scale

A splendid scale for the hatcheryman and poultryman for grading eggs. Grades eggs from 16 oz. to 30 oz. Operates on the counter balance principle. No springs to get out of order. Each-----\$3.50

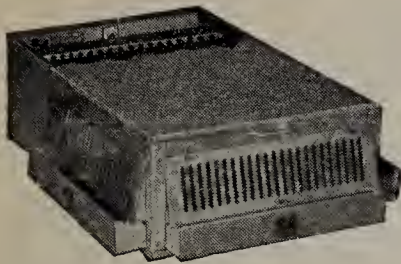
## \*Oakes' "Sun-Lite" Oats Sprouter

Made of galvanized iron, each 18-inch perforated pan or tray can be removed separately. No lamp or fuel required. Put in the oats, moisten a little daily and in three or four days you can feed sprouts.

- \*No. H-63—6-tray; each-----\$6.50







Oakes "Gro-Ezy" Electric Brooders

This sturdy product embodies many of the best features to be found in any Battery Brooder. It is substantially built. Mounted on casters for portability. Each drawer or shelf is a separate independent unit and can be used outside the portable rack.

Each drawer slides out of the frame as a complete unit. The woven wire floor of 1/2-inch mesh is finished in bright tin. This floor is not to be compared with the dingy hardware cloth ordinarily used. Droppings cannot catch and hold on wire intersections. A deep dropping pan is just underneath the floor with 1 1/2 inches of clearance. Pan is easily removed.

The chicks eat from open troughs. Every chick has a chance to get its fill. A chick will go to an open trough every time in preference to eating or drinking through holes or between wires, or bars. In each "Gro-Ezy" drawer there are two 20-inch feed troughs and one 20-inch water trough. These troughs are open their entire length. The feed is easily accessible and yet the chicks cannot get into it or foul it.

Chicks always see the feed but no feed is wasted. Doors lift up and drop into slots in the ends of the trough, providing an adjustment of the feeding space from 1/2 inch to 1 1/2 inches in width. This is ample room for chicks from a day old to ten weeks old.

Each drawer is 35 inches deep, 22 1/2 inches wide, and 9 1/2 inches high. Chicks can be carried to 8 weeks.

The lid is removable. Canvas curtain is attached to lid and divides the drawer into two parts.

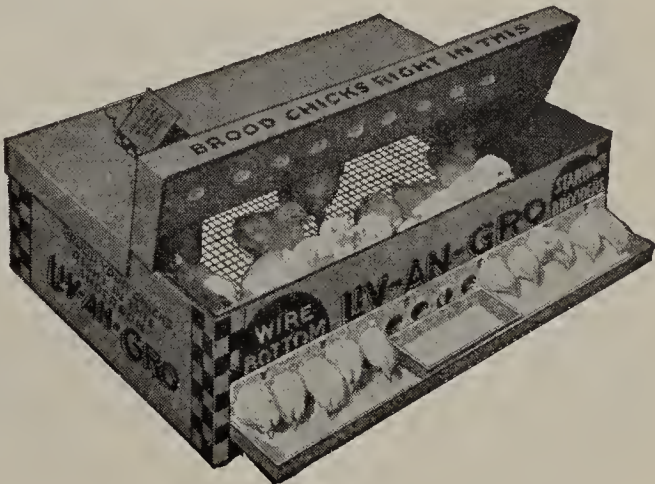
Electric heating elements and Thermostatic Control are attached to back panel behind the canvas curtain.

No. M-703—3-drawer brooder, complete with stand, weight 152 lbs., shipped K.D.-----List \$38.00

No. M-701—Drawer only, complete with heating element, automatic thermostatic control and plug socket, weight 34 lbs.-----List 10.00

Liv-an-Gro Brooder

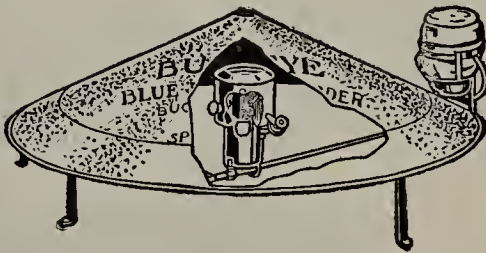
These brooders are built to raise a small flock of chicks of not more than 50. Where a person does not desire to go to a great expense for brooder when they only wish to raise a small flock. Side walls and top are constructed of heavy corrugated cardboard with a smooth finish. Bottom is made of hardware cloth so that chicks are kept off the floor and creates a sanitary condition. Brooders come equipped with water and feed trough. May be heated with charcoal or electrical current. If you have electrical current, advise the electrip heat. This brooder comes equipped with a complete drop with 8 foot of cord. Size of brooder 18x22x6. Kindly specify kind of heat desired when ordering, charcoal or electrical.-----Each \$1.75



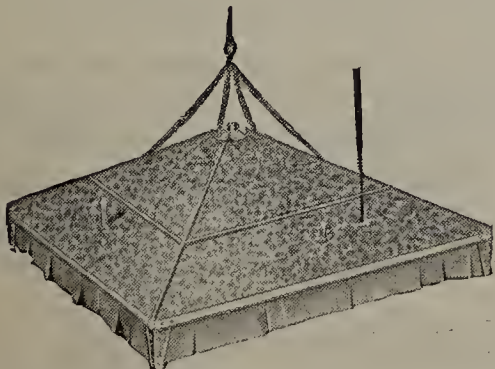
\*Buckeye "Colony" Brooders Raise Every Available Chick

The Buckeye Oil-Burning Brooder has the new improved Burner that gives the maximum amount of heat with the minimum consumption of oil. It is a wick burner and the oil is fed by gravity. Buckeye is self-feeding and self-regulating; it doesn't clog; it doesn't flare up; it doesn't go out. Can be safely operated on any floor. Has "Diafram" Heat Conveyor, so attached to the canopy that it insures the radiation of heat to the very outside of the brooding area.

	Capacity	Canopy	Shipping Weight	Price
No. 27-A -----	200 chicks	34-inch	49 lbs.	\$14.75
No. 80 -----	350 chicks	42-inch	50 lbs.	15.50
No. 81 -----	500 chicks	52-inch	60 lbs.	16.50



\*Oakes' New and Improved Electric Brooders



The canopy and legs are made of high quality galvanized steel of four pieces bolted and spot-welded together. The 32-inch canopy will support the weight of an average sized man.

Top is lined with asbestos and has Celotex deck above the heating element to retain the heat, in the 32 and 42 inch sizes. In addition to the Celotex insulation there is a metal heat deflector which distributes the heat.

Ventilation is provided through a series of draft chutes located above the heating element.

Each brooder is equipped with special Wafer thermostat and electric cut-off switch provides automatic regulation of the heat at all times.

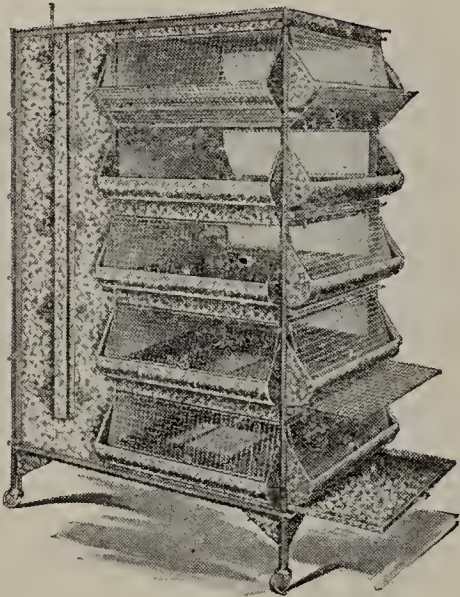
Special thermometer, eight feet of drop cord, curtains, and pilot light furnished as regular equipment with all brooders.

No. M-722—22-in. Brooder complete, 75 chick-----	\$ 9.00
No. M-732—32-in. Brooder complete, 150 chick-----	15.25
No. M-742—42-in. Brooder complete, 250 chick-----	19.00
No. M-752—52-in. Brooder complete, 385 chick-----	23.25

Automatic Heat Control. No Attention Required.



## Electric Heated Storage Brooder



A separate heating element individually controlled by an automatic thermostat is provided for each of the five compartments. Different temperatures in each compartment if desired.

Each compartment is divided into two parts. The brooder section contains a patented enclosed fire-proof electric heating element with automatic thermostat and also a pilot light. The feeding and exercising space has two feeder troughs, one on each side, measuring 24x3x2½ inches. Holds approximately 3 quarts each. The water trough on the front of each section is 28½x3x2½ inches, holding about a gallon. Each shelf is 28½ inches wide, 48 inches long by 11 inches high—134 square inches of brooding, feeding and exercising space.

Floors are of woven wire, ½-in. mesh. Each floor is in two sections measuring 24x28½ inches each and slides in and out from either front or rear. Floors are dipped in hot tin after they are formed; droppings do not adhere and accumulate on the tinned wire but slide through into the dropping pan below.

The ventilating flue extending from top to bottom is provided with a heating element that maintains a constant circulation of air and gentle suction which removes excess moisture and foul air from the five brooder sections. The foul air is replaced by gentle currents coming in around the edges of the curtains and passing through the entire compartment. This feature of providing live fresh air without fans or other mechanical device is very important and effective.

The doors on all three sides of the exercising compartment have ¾-inch mesh wire giving greater visibility of chicks. The doors swing out. The bottoms drop into notches at both ends of the trough, making the opening above the feeder from ¾ inch to 1½ inch, taking care of day-old chicks and others up to 8 weeks old.

Dropping pans are in two sections, removable from front and rear, with 1½ inch clearance between the wire floor and the pan. This brooder is easily rolled on the heavy 2½ inch casters. It measures 53 inches long, 31 inches wide and 67 inches high.

Each compartment holds 150 chicks from one-day to two-weeks old, 100 chicks up to four weeks old and 75 chicks four to seven weeks old.

No. L-709—Weight 500 lbs., knockdown crated.....Each \$105.00

## \*Oakes' Outfit for Home-Made Electric Brooder

Now you can make your own Electric Brooder at very small cost. Simply use the Oakes' outfit illustrated below in connection with a wooden tub, half barrel or wooden box and you'll have a thoroughly dependable electric brooder at a very economical cost. Outfit consists of heater complete with legs and 8 feet of drop cord with detachable plug. We do not furnish tub shown in illustrated. Works on 110-volt A.C. or D.C.

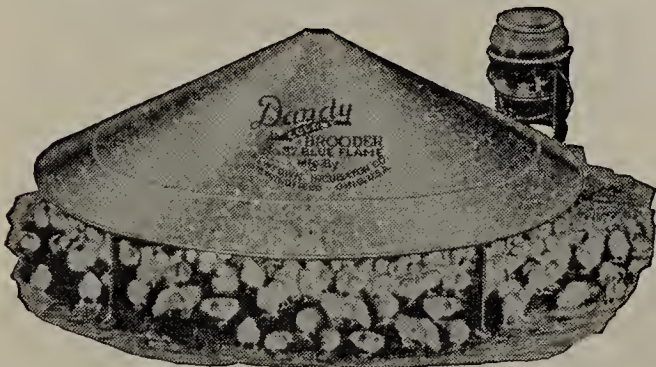
No. L-93.....\$3.25

## \*Dandy Blue-Flame Oil Burning Brooder

Here is a "Blue-Flame" Oil-Burning Brooder that's in a class of its own. It has important features that cannot be found on any oil-burning brooder that is as reasonable a price as we are offering on Dandy Blue-Flame today. If you have a warmly constructed or heated brooder house, the "Dandy" Blue-Flame Brooder will give you chick-raising results that cannot be surpassed by any brooder of its type regardless of price.

### A POWERFUL AND EFFICIENT BURNER

First, it has a powerful burner, a burner that provides a tremendous amount of heat. The wick is large and can be depended upon to burn evenly and to give a hot, blue-flame at all times.



And the regulation of the burner is simplicity itself. Merely turn the wick up or down—that's all there is to it. Just as easy and simply as a kitchen oil stove. And the flame doesn't flare up. It won't go out.

### NO COMPLICATED OIL "LEVELLING"

There's no oil leveling mechanism to contend with. No complicated leveling to do. You'll appreciate that if you have ever had experience with ordinary oil-burning brooders.

Nor is that all. There are no valves. No levers to fuss with and adjust. No priming. Simply set the "Dandy" down on any floor, put oil in the tank, and light the wick, and the "Dandy" is ready to serve you.

### SCIENTIFICALLY DESIGNED HOVER

It has a hover made of galvanized material. And it is the correct size and shape to deflect the heat downward to the brooding area where it is needed. None of the heat is wasted. Chicks stay warm and comfortable. There's no crowding, no chilling, no smothering. They thrive and grow.

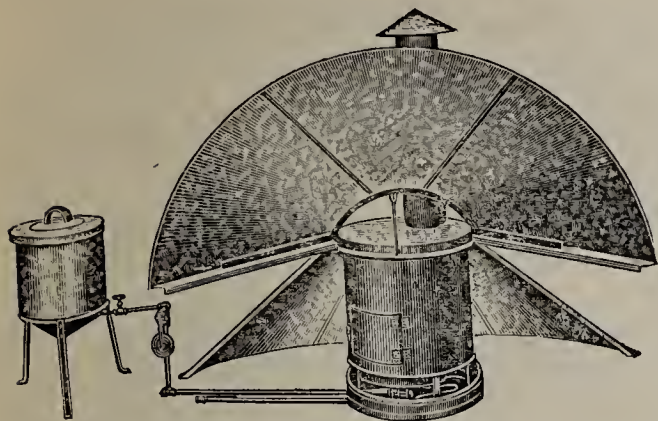
You'll have to see the "Dandy" Blue-Flame Oil Burning Brooder to appreciate what it is, how it is made, and what it will do. Let us tell you more about it.

No. 38—Capacity, 200 chicks; canopy, 34 inches; weight, 50 pounds.....Each \$12.75  
No. 37—Capacity, 500 chicks; canopy, 52 inches; weight, 60 pounds.....Each 14.75

## \*Buckeye Electric Brooder

Chick capacity.....	No. 91	No. 92
Diameter of canopy.....	100	200
Price.....	36 in.	46 in.
	\$16.26	\$20.39





## Red-I-Heat Oil Brooder

Provides plenty of heat on coldest nights. Operates successfully under most extreme weather conditions. Burner is well designed and perfected. The regulator is simple, safe and is sure to keep the brooder room temperature at just the right degree desired, working steady as a clock. The drum is especially sturdy and strong and is equipped with a new smoke pipe cap, new back draft check damper and is the most efficient, large capacity oil-burning brooder ever designed.

The fuel tank has a capacity of six gallons of distillate or kerosene oil and rests on a sturdy stand many inches out of the litter and off the floor. A sight feed shows you at all times whether the brooder is operating satisfactorily.

The new burner is made of high temperature iron, designed for highest efficiency, and is placed in the base of the All-Metal drum. Top of drum is insulated with 1-inch Asbestos cell to conserve the heat. A two-piece canopy is hinged on the top of this drum. The canopy lifts up so that it is easy to give attention to the burner and all working parts of the brooder. A safety sand ring is regular equipment for the base of the brooder.

Furnished in two sizes, complete with canopy, thermostatic control, 6-gallon fuel tank, tank stand, sight feed safety sand ring and stove pipe cap. No stove pipe furnished.

No. LO-52 —51-in. canopy, weight 110 lbs.	-----	\$33.50
No. LO-62 —62-in. canopy, weight 120 lbs.	-----	36.00
No. LO-62½—Room Heater, weight 70 lbs.	-----	33.00

## Made in Two Popular Sizes 150-Chick and 500-Chick



IT'S ALL BROODER—NO LAMP, NO STOVE!

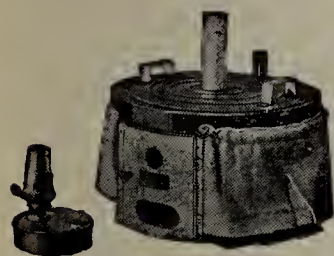
## \* Lectro-hatch Electric Brooders

The Lectro-hatch Brooder has the same principle of reliable heat and automatic temperature control as the Lectro-hatch Incubator. Night or day the temperature in your brooder never varies. There are no ups or downs—no frozen or roasted chicks. Chicks breathe free, pure air all the time. Pure air, unchanging heat and no crowding will prevent a big part of your usual chick losses. Lectro-hatch Brooders are strongly built of heavy galvanized metal, with heavy felt curtain—sturdy attractive, efficient and durable.

150-chick size	-----	\$18.00
(28 inch diameter)		
500-chick size	-----	23.50
(40 inch diameter)		

## \*Oake's "Economy" Hover LAMP-HEATED

Simple in construction, made of steel throughout, and durable. Can be lifted by its two handles without disturbing the lamp and used anywhere with perfect safety as it stands on a level floor; no platform or other preparation necessary. Only a small flame is required, as the lamp is inside and no heat is lost. The curtain is double and made of outing flannel.



No. K-102—18-in. drum, 50 to 75 chicks	-----	\$5.40
No. K-103—22-in. drum, 100 to 125 chicks	-----	8.1

## \*Oake's "O. K." Fountain Heater

Suitable for any kind of drinking fountain and for any size up to four gallons. Insures warm drinking water at all times. Heater of galvanized iron with chimneyless kerosene burner—stands firmly, and fowls cannot overturn it.



No. L44, each, \$1.75

## \*Brooder Lamp

A heavy, two-quart capacity lamp bowl, equipped with a No. 2 Zenith Burner. This lamp is used where a warm floor brooder or small brooder is desired. Ea. \$1.75.

## Reliable Baby Grand Incubators

It is double-walled with a circulation of warm air between walls, windows in top to see thermometer without opening machine. It is self-regulating and a positive success. Can be shipped by parcel post, express or freight, packed all in a carton ready to operate.

Price ----- \$5.50

Capacity, 50 chicks. Weight, 18 lbs.



50-egg Hot Air

## Incubator Lamp Wicks

Made of felt. The best wick to use in your incubator lamp. State width of wick when ordering. Each, 5c; doz., 50c; weight 2 oz.



## Tested Incubator Thermometer

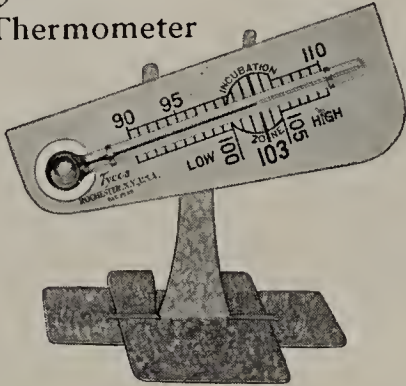
No. 5776—Incubator Thermometer—genuine “Tycos” on flexible brass legs. White figures and graduations on black finished scale. Packed 1 in box, shipping weight 6 ounces.  
Each ----- 75c

No. 5778—Genuine “Tycos” without legs. Shipping wt. 6 ounces.  
Each ----- 75c

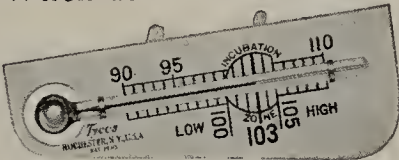
No. 90—Incubator Thermometer—mounted on porcelain stand and frame, with black engraving. Easy to read. Packed 1 in box, shipping wt. 6 ounces.  
Each ----- 75c

No. 80—Incubator Thermometer—each ----- 50c

No. 5776  
Tycos Incubation-Zone  
Thermometer



When used with Stand



When used without Stand

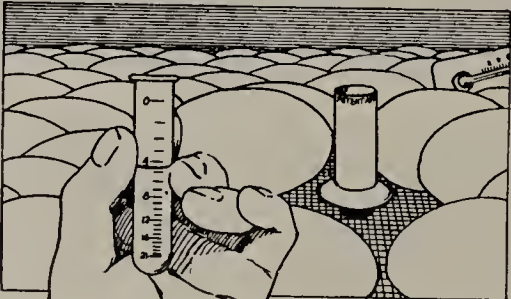
## Brooder Thermometer

No. 5792—Genuine “Tycos” Thermometer. To be inserted through a hole in the top of the brooder so the bulb is in the actual brooder temperature, and the scale is outside for easy reading. Weight 6 oz. Each 75c.

## Brooder Thermometers

No. 25—Brooder Thermometer. To be hung on canopy. Each-----\$0.45  
No. 125—Buckeye Brooder Thermometer. Each----- 1.25

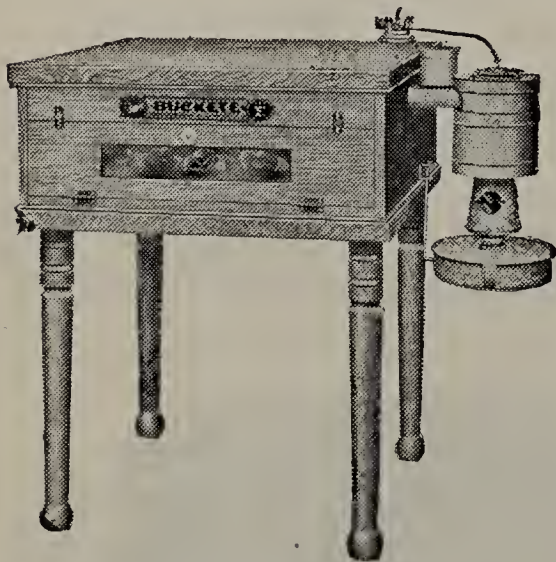
## \*Patterson and Young Moisture Guide



**MEASURE**  
THE EVAPORATION  
IN YOUR INCUBATOR  
with the  
**MOISTURE GUIDE.**  
IT “SOLVES THE MOISTURE PROBLEM”

your incubator. The holder is fastened to the egg tray and the guide is filled with water to the top line. The graduated scale shows how much moisture should evaporate from the egg each day. If evaporation is too fast, moisture should be added; if too slow, more air should be given. Full directions go with each guide. Attachments are included for all turning trays. Every owner of an incubator should have this moisture guide. Weight 3 oz. Each, \$1.00.

## Buckeye Incubators



Buckeye “Standard” No. 3

Buckeye Incubators are the result of over thirty-five years of study and experiment. There are no other incubators like them. Buckeye “Standard” Incubators are made with double-thick case. Heat insulating is practically perfect. The hot water circulating tank is pure copper—it will never rust or corrode. The automatic regulator assures uniform temperature at all times without any attention whatever. The lamp is supplied with either an oil or gas burner—each one efficient, economical in operation, dependable and fire-proof. Buckeye “Style E” Incubators are a little more simply constructed and a little less expensive in price—but they contain all the essential features of the Buckeye design.

Notes This: Both Buckeye “Standard” and Buckeye “Style E” Incubators carry the same unlimited guarantee—to hatch every hatchable egg every time and under all conditions. You can select either type of Buckeye Incubator and be sure of the best possible hatching results.

### CAPACITIES AND WEIGHTS

#### “Standard”

No. 1—120 eggs, 110 lbs., \$30.00 value-----	\$25.50
No. 2—175 eggs, 135 lbs., \$35.00 value-----	29.75

#### “Style E”

No. 14— 65 eggs, 55 lbs., \$16.50 value-----	14.12
No. 16—110 eggs, 85 lbs., \$22.50 value-----	19.13
No. 17—210 eggs, 125 lbs., \$30.00 value-----	25.50

# Lectro-hatch

## Electric Incubators

“DO IT ELECTRICALLY!” Lectro-hatch Incubators and Brooders have made poultry raising safe, easy and certain. Chicks hatched by electricity have the appearance of being a week old the day they’re hatched. Even heat and fresh, pure air give the chick every advantage for life, growth and development that Nature intended.

150-egg size, \$38.00 value-----\$29.75

When ordering Lectro-hatch incubators or Brooders, state voltage of your electric current.

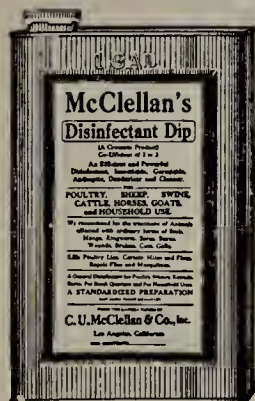




## Vermin Control

**\*McCLELLAN'S DISINFECTANT DIP**  
(2 to 3 Co-efficient)

McClellan's Disinfectant Dip is an efficient disinfectant, germicide, insecticide and antiseptic, recommended as a disinfectant for poultry houses, kennels, barns, pet stock quarters and for household uses. Can be diluted with water or oil.



8-ounce bottle	\$0.35
Pint bottle	.45
½-gal. can	1.00
1-gal. can	1.75
5-gal. can	7.50

## McCLELLAN'S RED MITE AND LICE KILLER

McClellan's Liquid Lice and Mite Killer is to be used on the fowls or in the poultry houses to aid in killing certain lice and mites. Kills by contact.

Quart can.....	\$0.60
½-gal. can .....	.90
1-gal. can .....	1.75
5-gal. can .....	7.00

## Dr. LeGear's Dip and Disinfectant

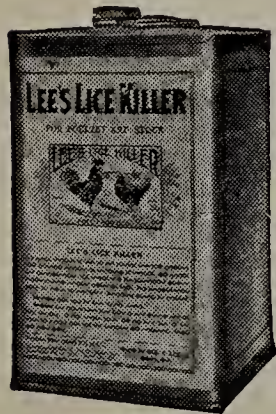
An excellent antiseptic, disinfectant, germicide and deodorant for both home and stable use. Good for lice, fleas, sheep scab, and many forms of ticks, itch and mange on horses, cattle, hogs, sheep, goats, dogs and poultry.

Put up in 8-oz. bottle, 30c; quart, 75c; half gallon, \$1.15; one gallon, \$2.00.

**\*Special**—Bring in your empty cans and let us fill them with LeGear's Dip and Disinfectant at \$1.35 per gallon.



## \*Lee's Lice Killer



It kills by vapor and contact. It gives double service. Painted on the roost it kills insects with which it comes in contact, and the vapor arising kills lice on the bodies of the chickens as they roost over night, also the insect causing scaly leg. Not available. Price—Quart can, 60c; ½ gallon, 90c; gallon can, \$1.50.

**\*CREOSOTE DIP or 15% Crude Carboic Acid**—An excellent liquid spray or paint to put on your poultry house to keep them free from all vermin.  $\frac{1}{4}$  gallon, 35c;  $\frac{1}{2}$  gallon, 65c; 1 gallon, \$1.00; 5 gallons, \$4.00.

**\*BULK DIP AND DISINFECTANT (2 to 3 Co-efficient)**—Used as a disinfectant, germicide, insecticide and antiseptic for poultry houses, kennels, barns and household uses. Can be diluted with water or oil.  $\frac{1}{4}$  gal., 45c;  $\frac{1}{2}$  gal., 75c; 1 gal., \$1.35; 5 gal., \$6.25.

## \*McClellan's Compound Sodium Floride Lice Powder (FOR POULTRY)

McClellan's Compound Sodium Fluoride Lice Powder is a very high grade preparation made for dusting fowls. Unequalled insofar as efficiency in killing and eradicating lice on poultry is concerned.

15 -oz. pkg.	30c
2½-lb. pkg.	70c

## \*Dr. LeGear's Lice Killer Powder

**Price** \_\_\_\_\_ **30 Cents**



## \*Carbolineum

is a pure, unadulterated high boiling anthracene oil—a carbolineum of the highest grade—meeting Uncle Sam's requirements in every respect and it is

## SURE DEATH TO MITES AND BLUE BUGS

Can be applied with a brush, like paint, or sprayed on as preferred. It should not be applied to the chickens. One gallon will go over an ordinary chicken-house, size 8x12. ¼ gal., 50c; ½ gal., 90c; 1 gal., \$1.50; 5 gal., \$7.25.

# Super-ol

Kills chicken mites, fowl ticks or "Blue Bugs". A dependable wood preservative. Protects against rot and premature decay. Protects wood from destruction by white ants (Termites). On practically every kind of farm building, it may be used as a paint. It is less expensive than paint, easy to apply and prevents decay. 1 gallon. \$1.75.

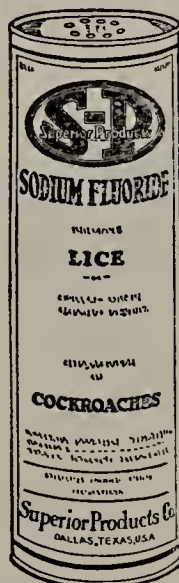


## \*Sodium Fluoride

A preparation highly recommended by the U. S. Government for the control of poultry lice. May be used as a dip or dust. **Lb., 35c.**

**\*Talcumized  
Sodium Fluoride**

It kills both old and young lice, including unhatched lice present at the time of treatment. Talcumized Sodium Fluoride (called "T. S. F.") is made especially for poultry use. It is less irritating than straight Sodium Fluoride, penetrates the plumage more thoroughly, and comes packed in a moisture-proof, shaker-top package bearing the U. S. Government's directions for using. Small sizes (for 50 chickens), 40c; large size (twice the 40c size), 70c; special size (5 times 70c size), \$2.65. The above prices include packing and postage.



## \*Dr. Hess Louse Killer

Kills lice on poultry, horses and cattle; sheep ticks; bugs on cucumber, squash, and melon vines; slugs on rose bushes; ants. Non-poisonous; can be used in safety on edible plants. Sold in sifting-top cans.

1 -lb. can	30c
2 1/2 -lb. can	60c

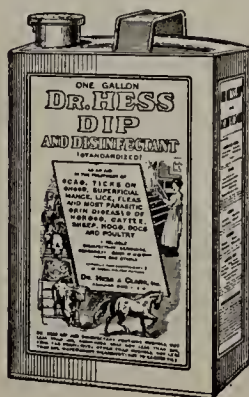
Conkey's Head Lice Ointment.....	10c and 25c
Conkey's Lice Fix—pkg. ....	25c and 50c
Conkey's Flea Salve—pkg. ....	25c



## \*Dr. Hess Dip and Disinfectant

Kills hog lice, sheep ticks, and other animal parasites. For general disinfecting about stables, dairy barns, poultry houses, and the household. It is standardized, always uniform in strength. Makes a milky-white emulsion.

1 gallon	\$2.25
1/2 gallon	1.30
Pints	.50







# Just Paint it on the Roosts!

—Before the chickens perch. Only a small paint brush and a can of "Black Leaf 40" are needed. While chickens roost, fumes are slowly released and penetrate the feathers; killing lice. Eliminates individual handling of birds. Ask your dealer or write us. Tobacco By-Products & Chemical Corp., Inc., Louisville, Ky.\*

## "Black Leaf 40" Kills Poultry Lice

1-oz. bottle	-----	\$0.35
Covers 12 to 15 running feet of roost.		
5-oz. bottle	-----	1.00
Covers 60 to 75 running feet of roost.		
1-lb. bottle	-----	2.10
Covers 180 to 240 running feet of roost.		
2-lb. tin	-----	3.10
Covers 385 to 480 running feet of roost.		
5-lb. tin	-----	5.85
Covers 900 to 1200 running feet of roost.		
10-lb. tin	-----	10.15
Covers 1,900 to 2,400 running feet of roost.		
(Cannot be mailed)		

### \*Nicotox

#### THE NEW MODERN POULTRY AND LIVE STOCK DELOUSER

You do not handle a bird. There is no powder, liquid, or grease to be rubbed in, dusted or sprayed on to every bird. Just a few strokes with a paint brush and you can easily and economically delouse your entire flock whether you have 20 or 2,000 birds. The low cost and efficiency of Bonide NICOTOX makes it true economy to "just paint the roosts" whenever the birds need it. The new modern Bonide NICOTOX method does away with the necessity of using messy powders, ointments, dips, etc., which require tedious labor and usually interfere with egg production.



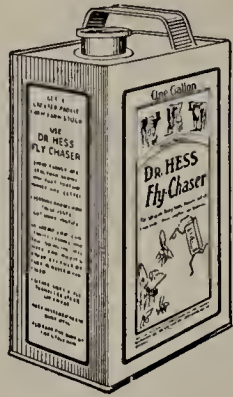
Bonide NICOTOX is a new, improved Nicotine Sulphate formula, stronger and has lasting qualities superior to those of any other similar product on the market. It costs about half the price of similar preparations. NICOTOX takes all the trouble, labor and high cost out of delousing poultry, so now you cannot afford not to delouse your flocks.

NICOTOX has also proven a boon to dairymen for the eradication of cattle lice, especially the blue louse. The simplicity of application, efficiency and low cost make NICOTOX use, real economy. NICOTOX is a time and moneysaver; entire herds may be treated in a few minutes which normally would take hours, where the old obsolete powder methods are used. A 75c CAN OF NICOTOX USED ACCORDING TO DIRECTIONS IS SUFFICIENT FOR APPLICATION ON ABOUT 70 HEAD OF CATTLE.

	Prices and Sizes	Net Wt. per can
1/2 Pts.	\$0.75—Enough to delouse 200 hens	10 oz.
Pts.	1.25—Enough to delouse 500 hens	1 1/4 lbs.
Qts.	2.00—Enough to delouse 1,000 hens	2 1/2 lbs.

### SERVICE

We have a trained corp of employees schooled to help you with your problems intelligently on any subject concerning poultry diseases, control of plant diseases and insects, fertilizers or planting, and are ready and willing to help you at all times with your problems if it is within their power to do so.



### \*Dr. Hess Fly Chaser

Has the odor of the pines. Pleasant to folks, but repelling to flies and mosquitoes. Prevents the summer milk slump. Besides being a most efficient fly repellent, it is a disinfectant, antiseptic and deodorant. Will not taint the milk; will not strain or gum the hair. It is a skin cleanser.

1 gallon	-----	\$2.00
5 gallon	-----	8.50

### \*Flyrol

#### A RELIABLE HOUSEHOLD INSECTICIDE

Destroys flies, moths, mosquitoes, bedbugs, beetles, silverfish, fleas, chicken lice, mites and their eggs. Flyrol, sprayed thoroughly within the house is a sanitary measure insuring against contagion. Flyrol is 100% active and non-poisonous. Will not stain the daintiest fabrics. No unpleasant odor. Use Flyrol freely during spring and summer months.



Pint cans	-----	\$0.65
Quart cans	-----	1.20
Gallon cans	-----	3.25
5-Gallon cans	-----	12.50

#### "DAIRY BRAND" FLYROL A Special Outdoor Insecticide

For controlling flies, mosquitoes, chicken lice and fleas. A spray for dairy cows, horses and all farm stock. Especially effective for dairies, stables, barnyards, chicken houses, rabbit pens, dog kennels, trash piles and in swamps. These are the places that breed disease. Keep them clean by spraying Dairy Brand Flyrol on them. Kills eggs and larvae.

1/2-Gallon cans	-----	\$0.90
1-Gallon cans	-----	1.50
5-Gallon cans	-----	6.25

### \*McClellan's Fly-Fate For Household Purposes

McClellan's Fly-Fate is non-poisonous and harmless to everything except insects. Kills flies, cloth moths, mosquitoes, fleas, roaches, bed bugs, and ants. McClellan's Fly-Fate is highly perfumed with the following odors: Lilac, wintergreen and acassia. Recommended for homes, hotels, restaurants, markets, stores, etc. Will not stain.

Pint bottle	-----	\$0.65
Weight, 2 lbs.		
Quart bottle	-----	1.00
Weight, 4 lbs.		



**GROUND PYRETHRUM FLOWERS**—Dust directly on ants, also a splendid ingredient for killing flies, mosquitoes, roaches, etc. We recommend this preparation where a powder is desired. It is very effective and most economical to use. Lb., 50c; 10 lbs., \$4.50.

**\*SODIUM FLUORIDE**—Highly recommended for dusting or dipping poultry to destroy the lice, also a splendid preparation to rid premises of roaches. Lb., 35c.

**BEE BRAND POWDER**—For mosquitoes, roaches, flies, etc. 2 1/4 oz., 25c; 6 oz., 50c.

**McCLELLAN'S ANT POWDER**—2 oz. can, 25c.





## Knox-Out

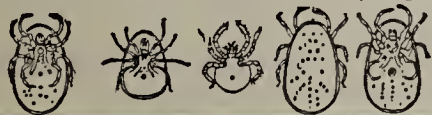
K-O is safe, clean and clear—contains no tar, refuse, or heavy, dark oils. It has one hundred per efficiency and is highly economical. The combination of strangling, repelling and other effects on the flies, enables K-O to give the cows solid comfort and help maintain flesh and volume of milk. It gives you contented cows and helps you save that 10% to 20% milk loss. It makes milking pleasant and comfortable for the herdsman.

Quart ----- \$0.60  
1 Gallon ----- 1.50



Rids poultry of all blood sucking lice, mites, fleas, blue bugs, cleans them of all intestinal worms and parasites. It is also a wonderful poultry tonic, blood purifier, health builder and egg producer. It contains lots of sulphur, compounded scientifically with other health building ingredients. Known remedies for preventing disease. "Prevention is cheaper than cure." Keep your flocks free of insects and intestinal worms and their system in good condition through the winter and you will get good hatchings and strong chicks in the spring. A supply to last you through the winter and spring will cost very little. Give it a six days' trial at our risk. Money back is not pleased. 50c and \$1.00 per bottle.\*

## Martin's Blue Poultry Tone



### FOR BLUE BUGS

MARTIN'S POULTRY TONE is a tonic to be fed to poultry that have been exposed to blood sucking insects. Poultry that have been exposed to blood sucking insects show a loss in vitality, and in some cases the vitality of the fowl is reduced to where they become weak and in some instances cannot walk. Martin's Poultry Tone is to be mixed in bran or dry mash as per directions on package. 1-lb. pkg., 50c; 2¼-lb. pkg., \$1.00; 5-lb. pkg., \$1.75.

## Martin's Screw Worm Killer



MARTIN'S SCREW WORM KILLER—Kills the worms quickly without any bad effects on the wound and assists as a fly repellant. 2½-oz. can, 25c size

Dr. LeGear's Screw Worm Killer ----- 30c

## \*McClellan's Sept-A-Soil

(An Iodized and Cresylated Disinfectant)

For spraying over soil, dirt, ground and all premises which have been used by infected or unhealthy poultry or stock.

1-Gallon cans ----- \$2.75

## \*Antrol

Kills Ants in the Nest



### Kills Ants in the Nest

New Method "Gets" Them at Their Source  
.... Safe, Permanent, Effective

The Antrol system is adapted to any size house or garden, and quickly destroys all species of sweet-eating ants. It is composed of small glass containers partially filled with special syrup and placed about the outside edges of the house or along ant "trails" in the garden. The ants smell the syrup, eat it, and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed.

The complete system should cover every fifteen feet around the outside of the house or ant "trails" in the garden. Once installed, permanent, effective, and safe protection is insured from these annoying pests.

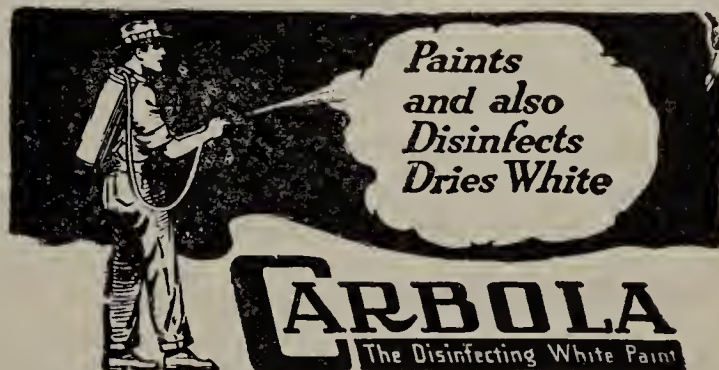


Cottage set containing nine containers and one 6-oz. bottle of syrup ----- \$1.25  
Antrol extra containers, each ----- .15  
Antrol syrup, 4-ounce bottles ----- .45  
Antrol syrup, pints ----- .95  
Antrol syrup, quarts ----- 1.50  
Antrol syrup, gallon ----- 3.75



\*RED SEAL INSECT POWDER—Odorless and non-poisonous. A guaranteed exterminator of roaches, flies, water bugs and fleas.

4-oz. cans ----- \$0.50  
10-oz. cans ----- 1.00



### THE POWDER OF MANY USES

Carbola is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. One pound covers 100 square feet.

Carbola makes buildings light, clean, sweet-smelling and sanitary. Helps to prevent contagious diseases among live stock and to keep poultry, cattle, horses, etc., free from lice, mites and other parasites. Recommended by leading agricultural colleges, experiment stations and health authorities for use in poultry houses, stables, dairies, hog pens, cellars, garages, dog kennels, rabbit hutches, factories, warehouses, out-buildings, on trees and tree trunks, and in the garden.

\*5-lb. pkg. ----- \$ .85  
10-lb. pkg. ----- 1.50





**\*NOTE THESE  
REMARKABLE  
QUALITIES**

**Powerful.** By Government method of test B-K has over ten times greater germ-killing strength than carbolic acid. Much stronger than coal tar disinfectants—much safer.

**Safe.** B-K is colorless, leaves no stain on floors, walls or utensils. Does not soil animal's hair.

**Deodorant.** B-K destroys foul odors—leaves no odor of itself.

**Cheap to Use.** B-K is so strong that much water is used in diluting. One gallon B-K makes 200 to 500 gallons of solution ready for use according to the purpose.

**Stops and cures Roup, Canker, Scaly Legs, Bumblefoot, Chicken Pox, Black Head in Turkeys and other contagious poultry diseases.**



**FOR YOUR SHOW BIRDS**

B-K removes all stains—keeps plumage, skins and combs clean and bright—destroys nits and eggs of lice. Keeps the flock healthy and snappy.

**Greatest Household Purifier, Cleanser, Deodorant Germ Destroyer.**

**Non-Poisonous, Colorless, Leaves No Odor.** Circular on request.

**Trial size, 30c; 10-oz., 50c; qt., 90c; gallon, \$2.00; 5 gallons, \$8.50. Express only.**

**B-K POWDER** will make 3 gallons of 3½% Sodium Hypochloride solution. \$1.50.

**\*McClellan's  
N. I. (Nox Infecto)  
(Sodium Hypochlorite Solution)**

**McCLELLAN'S**

**"N~I"**

NOX INFECTO

Disinfectant Bleacher  
Deodorant Cleanser  
Antiseptic Purifier

Active Ingredients  
Sodium Hypochlorite.....5.62  
Inert Ingredients.....94.38  
Total 100%.....100.00

From the Laboratories of  
**C.U. McCLELLAN CORP.**  
LOS ANGELES, CALIFORNIA  
NET CONTENTS \_\_\_\_\_

McClellan's N. I. is a sodium hypochlorite solution. It is a non-poisonous but powerful sterilizer, deodorant, disinfectant and antiseptic, recommended for hospitals, dairies, schools, depots, bottling plants, poultry ranches, etc.

**Great household purifier, cleanser, deodorant germ destroyer.**

**Non-poisonous, colorless, leaves no odor.** Circular on request.

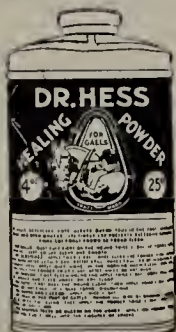
12-oz. bottle.....\$0.50  
1-qt. bottle......85  
1-gal. bottle.....1.75  
5-gal. bottle.....8.00

**\*Dr. Hess Healing Powder**

**An Antiseptic Treatment for Open Wounds and Abrasions.** For veterinary use it is a recognized remedy for galls, cuts, thrush, mud sores, burns, wire cuts, ulcers, foul in the feet, fistula, chapped teats and surface wounds of every description. It also prevents proud flesh. Being a powder, stable dirt and dust will not stick to it.

Put up in handy adjustable, sifting-top can.

10-oz. can .....\$0.50  
4-oz. can .....25



**Lee's Healing Powder—Splendid for cuts and sores on animals** .....\$0.25



**\*Sterilac**

Every poultryman should have available a good disinfectant and germicide. Numberless times a disinfectant and germicide will save an entire flock from colds—roup—and various other diseases. If a bird becomes infected, place it apart from the rest of the birds and fight actively against the infection.

**STERILAC** is the most powerful and the most economical germicide on the market. One ounce of Sterilac makes 60 gallons of disinfectant. It should be used in more powerful mixtures for germicidal purposes. Our free booklets, "Sterilac for the Poultryman," "Sterilac for the Dairy," and "Sterilac in the Home," give full information on its use. No poultryman or dairyman should be without this in his home, poultry and barns. It materially increase your profits.

2-oz. bottle .....\$ 1.00  
½ pound.....2.50  
1 pound.....4.50  
5 pound ukg.....16.75

**For the Dairyman**



**UDDER HELP** is the ideal all-purpose ointment for livestock. Its healing, antiseptic properties make it useful in all cases, for cuts, sores, bruises, cracked or chapped teats, treating non-contagious garget. Use freely to massage sprained or stiff muscles and joints. 8-oz. tube, 50c; 1-lb. can. 90c; 5-lb. can, \$4.25.

**EPSOM SALTS**—Well known cathartic. Bowel regulator for stock and poultry. 1 lb., 10c; 3 lbs., 25c; 14 lbs., \$1.00; 100 lbs., \$4.50.

**MILK BOTTLE CAPS**—Will fit any standard milk bottle. 25c per lb., 10 lbs., \$2.25.

**BUTTER CARTONS**—85c per 100, weight 3 lbs.; \$7.50 per 1,000, weight 30 lbs.

**BUTTER PAPER**—For wrapping 1-lb. moulded butter. 35c per lb.; 3 lbs., \$1.00.

**FLOWERED SULPHUR**—For feeding with salt, etc. 1 lb., 10c; 10 lbs., 75c; 100 lbs., \$5.00.

**\*McCLELLAN'S UDDER BALM**—A soothing, penetrating ointment for many affections of the bag, such as Bunches, Caked Bags, Cuts, Sore Teats, Chapping and Inflammation. 10-oz. cans.....\$0.60

**PRATT'S BAG OINTMENT**.....\$0.50

**\*DR. HESS UDDER OINTMENT**—Especially prepared for the treatment of injuries and congestion of the udder and teats. Penetrating, soothing, healing. Large handy can.....\$0.50

**\*Dr. LeGear's  
Antiseptic  
Powder  
PROMOTES HEALING**

It is an excellent antiseptic preparation for treating cuts and sores, barbed wire cuts, saddle, harness and collar galls. Keeps off flies. For flesh wounds and abrasions, livestock breeders find Dr. LeGear's Antiseptic Powder a splendid preparation. Put up in sifter-top cans. Easy to apply—simply dust on.

Small can .....\$ .30  
Large can .....60







## Poultry Worm Control

### DR. LeGEAR'S NICOTINE - KAMALA PILLS

Adult size—An effective preparation against large round worms and also tape worms—a very easy simply, individual treatment—no fasting necessary—as the pill is to be given on full crop.

50 pills-----\$1.00  
100 pills-----1.75

Chick Size—Especially prepared for chicks.

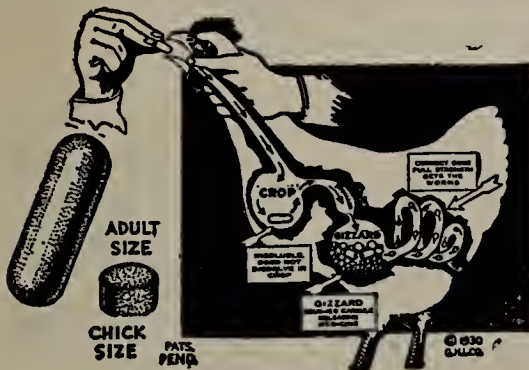
45 pills-----\$ .50  
100 pills-----1.00

### \*Lee's Gizzard Capsules

An Insoluble Capsule carrying a triple combination worm medicine for Tapeworms, Round Worms, and Pin Worms. Being insoluble, it passes through the mouth, throat, crop and stomach of the fowl to the gizzard where it is ground up like a grain of corn, pouring the full strength, undiluted medicine directly into the intestines upon the worms.

It is five times as effective as worm remedies given in the food or drink, which dilutes and weakens them; it is three and a half times as effective as soluble capsules dissolving in the crop, or liquids deposited in the crops with a syringe.

Poultry authorities and medical scientists have welcomed the "Gizzard Capsule" as the most forward-reaching step in furthering the fight against intestinal parasites of poultry.



CHICK SIZE		
50 Capsules, pkg.	-----	\$ .50
100 Capsules, pkg.	-----	.90
250 Capsules, pkg.	-----	2.00
500 Capsules, pkg.	-----	3.50
1000 Capsules, pkg.	-----	6.00

PULLET SIZE		
50 Capsules, pkg.	-----	\$ .75
100 Capsules, pkg.	-----	1.35
250 Capsules, pkg.	-----	3.00
500 Capsules, pkg.	-----	5.00
1000 Capsules, pkg.	-----	9.00

ADULT SIZE		
50 Capsules, pkg.	-----	\$ 1.00
100 Capsules, pkg.	-----	1.75
250 Capsules, pkg.	-----	4.00
500 Capsules, pkg.	-----	7.00
1000 Capsules, pkg.	-----	12.00

### \*McClellan's Poultry Prescription 999

(Poultry Tonic and Worm Powder)

McClellan's Prescription 999, Worm Powder and Poultry Conditioner is an efficient and very successful flock treatment for internal parasites such as tapeworms and large round worms. It is a scientifically and properly balanced compound of vital minerals together with several very expensive and proven worm expellents. It is harmless in effect upon the bird. Will not

retard egg production, will not cause the birds to go into moult but on the contrary increases the egg output and acts as a builder of the body, blood and vitality. It can easily be mixed with the feed or given in individual treatments as preferred.

4-oz. pkg., 75c; 12-oz. pkg., \$1.75; 1½-lb. pkg., \$3.00; 3-lb. pkg., \$5.00; 5-lb. pkg., \$7.50.



### \*Dr. Hess Poultry Worm Powder

Quick in Action—Sure in Results

Placed in the morning mash for 10 days it frees your poultry of worms on full feed without shock or evil effects to the system. Repeat in three weeks to prevent reinfestation. When used and prescribed will not check the growth of chicks or throw hens into moult or off production.

4-lb. pkg.-----\$1.50  
10-lb. pkg.-----3.25  
25-lb. pkg.-----7.50

We consider the third great poultry danger to come from worms, because they devitalize your poultry quicker than any one pest. These are internal worms which form principally in the intestinal tract. They look more like a white string than anything else, and if any of your birds are dying from causes which you cannot locate, cut open the intestinal tract and see if you do not see these string-like worms.

### \*Vernox

For both tape and round worm in poultry. A special preparation of Kamala combined with other drugs so prepared that they are not dissolved until reaching the parts inhabited by the worms. Same formula as recommended by agricultural college experts.

Package of: 50, \$1.50; 500, \$12.50; 1000, \$20.60.



### Gold Leaf Tobacco Powder

Controls Poultry Round Worms

"Gold Leaf" Tobacco Powder is especially manufactured for this poultry purpose. So certain is its action that it may well be considered a specific for the control of this trouble. The treatment is exceedingly inexpensive.

Mix two pounds of "Gold Leaf" Tobacco Powder with 100 pounds of dry mash. With the large 100-lb. bag, 800 birds can be treated for about 12 cents a day, or at the rate of about 70 birds for one cent a day, during the treatment period.

We guarantee "Gold Leaf" Powder to contain not less than 1% of nicotine, and to be of suitable fineness for feeding to poultry.

Prices: 2 lbs., 30c; 10 lbs., \$1.00; 100 lbs., \$6.25.

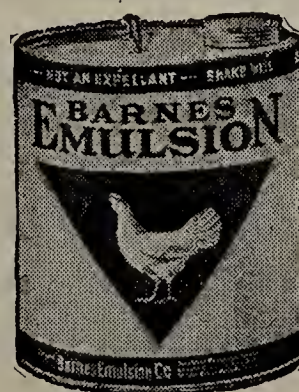
### \*Barnes Emulsion

Is a positive control for poultry worms. If fed according to directions, based on the condition of your flock, you will have no trouble getting this situation well in hand. It will be well worth your while to make a careful test on your birds of this product. No honest test of this emulsion has failed to get results. Write for booklet, "Common Sense vs. Worms" for full information. It will be sent you free of charge.

Barnes Emulsion not only controls worms but builds the vitality of your poultry. Based on our six years' experience with this product we unhesitatingly recommend it.

Quarts ----- \$ 1.00  
Gallons ----- 3.00

5-Gallon Kegs ----- 12.50  
30-Gallon Kegs ----- 58.50





Stock and Poultry Tonics

**\*DR. HESS POULTRY PANACEA**—Helps to make poultry healthier and to make hens lay. Not a stimulant, but a tonic that tones up the dormant organs, brings back the scratch and cackle, and compels each hen to put her share of eggs in the market basket.

Always buy according to the size of your flock. 100-lb. drum, \$12.00; 25-lb. pail, \$3.50; 15-lb. pkg., \$2.25; 7-lb. pkg., \$1.25; 3-lb. pkg., 65c; 1½-lb. pkg., 35c.

**\*DR. HESS STOCK TONIC—IMPROVED—WITH MINERALS ADDED**—A Conditioner and Worm Expeller—Promotes health—makes hogs, cows and sheep more profitable—keeps horses and mules in good condition. Rids hogs of worms, makes the runts thrive and the whole herd gain faster.

Contains tonics to whet the appetite of cows, laxatives to keep the bowels in order, diuretics for the kidneys, and the needed minerals usually lacking in ordinary rations.

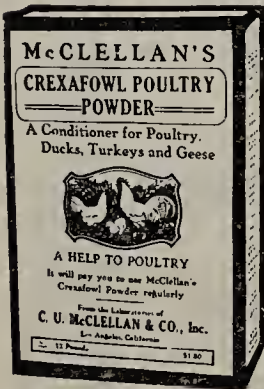
Always buy according to the number of animals you have. 100-lb. drum, \$12.00; 50-lb. drum, \$6.50; 25-lb. pail, \$3.50; 10-lb. pkg., \$1.50; 5-lb. pkg., 85c; 3-lb. pkg., 65c.

**\*DR. HESS HOG SPECIAL—A Splendid Conditioner and Worm Expeller for Hogs**—Rids hogs of worms. Makes the runts thrive and the whole herd gain faster. Contains tonics to whet the appetite, laxatives to keep the bowels in order, diuretics for the kidneys, and the needed minerals usually lacking in ordinary rations. 25-lb. pkg., \$3.50; 15-lb. pkg., \$2.25; 3-lb. pkg., 65c.



**\*McCLELLAN'S LIQUID CREXAFOWL POULTRY TONIC**—McClellan's Liquid Crexafowl is a scientific mineral conditioner for poultry, ducks, turkeys, geese and young fowl, especially indicated for baby chicks as well as an excellent fattener for use by feeding stations. A splendid stimulating conditioner for moulting hens. Makes hens lay and pay.

8-oz. bottle	.....\$ .50
16-oz. bottle	......75
Quart bottle	.....1.00
½-Gallon bottle	.....1.75
1-gallon bottle	.....3.00
5-gallon bottle	.....12.50



**\*McClellan's Crexafowl Poultry Powder**

Compounded for the same purpose as Crexafowl Liquid, but put up in powder form.

1½ Lb.	.....\$ .30
5 Lb.	......85
12 Lb.	.....1.85
30 Lb.—Galvanized pail	.....4.25
100 Lb.—Barrel	.....12.00

**\*Don Sung**

**Chinese for Egg-Laying**  
It is a concentrated medicine—no needless bulk or filler—ready to add to your mash feed. It has a direct tonic action on the egg-laying organs and doesn't force or hurt the hens in any way. It produces more eggs by first putting the hen in good health, and then helping to maintain their health.

Small size, 50c; large size (3 times the 50c size) \$1.00.



**Poultry Regulator**

24-oz. pkg.	.....\$ .25
4-lb. pkg.	......50



**Cow Tonic**

This splendid tonic is made specially for cows. It contains no filler and no antimony, arsenic or dangerous minerals. Mixed with the feed it helps the digestion, regulates the bowels, tones up the reproductive system, helps prevent abortion, costs little and pays you big profits. Absolutely guaranteed. Try it.....\$ .50

**STOP CANNIBALISM IN BABY CHICKS**

with

**\*McClellan's Toe Pick**

**McClellan's Toe Pick** is manufactured for controlling and overcoming the vicious habit of toe, wing and vent picking of chicks. It is also soothing and healing 7-oz. can, 45c; 15-oz. can, 80c.

**\*DR. LEGEAR'S GALL SALVE**—For collar, saddle and harness galls. Also useful for cuts and scratches of teats of cows. 2-oz. box, 30c.

**DR. LEGEAR'S COW PRESCRIPTION** is scientifically balanced to make an efficient tonic, appetizer and conditioner for milch cows, heifers and calves. 2 lb., 50c.

**\*McClellan's Stock Tonic**

A general Conditioner for Livestock

3½ Lb.	.....\$ .65
10 Lb.	.....1.50
30 Lb.—Galvanized pail	.....4.25

**VITOX**—A vermifuge and tonic for little pigs. Helps to start the little pigs right. Helps to clean out stomach and bowels and to destroy worms. Also tones up digestion. Keep the little pig fat on the pig. Don't let the worms get it. 10-oz. bottle, \$1.00; quarts, \$2.00.

**\*LeGear's Poultry Prescription**

Helps to make hens lay to keep poultry health. A good general tonic and remedy for many ailments of poultry. It is especially beneficial during the moult, in the breeding season and during the winter time. 25c size; 50c size; \$1.00 size; 25-lb. drum, \$3.00; 100-lb. drum, \$10.00.

**DR. LEGEAR'S STOCK POWDER**—25c size, 30c size, \$1 size, 25-lb. pail, \$3 size, 100-lb. bag, \$10 size.

**DR. LEGEAR'S HOG PRESCRIPTION**—60c size, 25-lb. pail, \$3.50 size.





# Poultry Remedies



**\*GERMOZONE**—Is a most effective remedy for diseases affecting the skin and semi-exterior mucous membrane of man, fowl or beast.

**For Poultry**—Roup, colds, canker, chicken-pox, sore head, swelled head, cholera, bowel trouble, etc.

**For Stock**—Cuts, sores, wounds, sore eyes or mouth, saddle or harness galls swelling skin diseases, etc.

4 oz. at	-----	\$0.40
12 oz. at	-----	.75
Quart size	-----	\$1.50
1/2 Gallon	-----	2.50
Gallon	-----	4.50

**\*WALKO**—Especially valuable for white diarrhoea among incubator chicks. Tends to increase strength and vitality and should be given in drinking water as a preventive from the time chicks are out of the shell. 50c and \$1.00 pkgs.

*Dr. LeGear's Chick Tablets	-----	\$ .50
Dr. LeGear's Gall Remedy	-----	.30

## \*Lee's Nasal Syringe



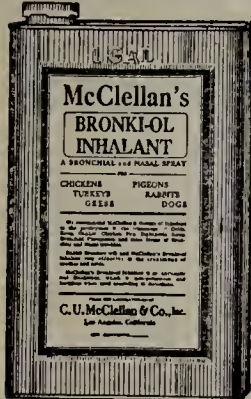
In Swelled Head, and other very serious diseases of this type, the upper air passages of the head become filled with mucus. Medicine, to be effective, must come in direct contact with the affected membrane lining.

With this syringe the medicine is forced into the head right where it will get direct action against the disease and, at the same time, this forcing of the medicine into the nasal passages also forces the mucus out of the head. The mucus will come through the nose and eye sockets. Price 75c.

## \*McClellan's Bronki-ol Inhalant

(FOR POULTRY AND RABBITS)

McClellan's Bronki-ol Inhalant when used as a Nasal Spray is a cooling, soothing, beneficial therapeutic throat and nostrils. It is being used continuously by many of the leading Chicken, Turkey and Rabbit raisers in the United States and Canada and has become established as one of the most popular, efficient and satisfactory preparations of the well known "McClellan" line.



McClellan's BRONKI-OL Inhalant like all successful products, has been imitated but never equalled. To ensure satisfaction and avoid disappointment and waste of money, look for the signature "C. U. McClellan" in red ink across the face of every label thereby making sure you are obtaining the genuine and not an imitation.

McClellan's BRONKI-OL Inhalant has the great advantage of being easy and economical to administer—just spray according to directions and the results will be all you could ask. The time of the poultry or rabbit raiser is worth money and as with Bronki-ol Inhalant it takes only five or ten minutes to spray 1,000 birds, it is seldom that a treatment of proved efficacy can be given at such a small cost.

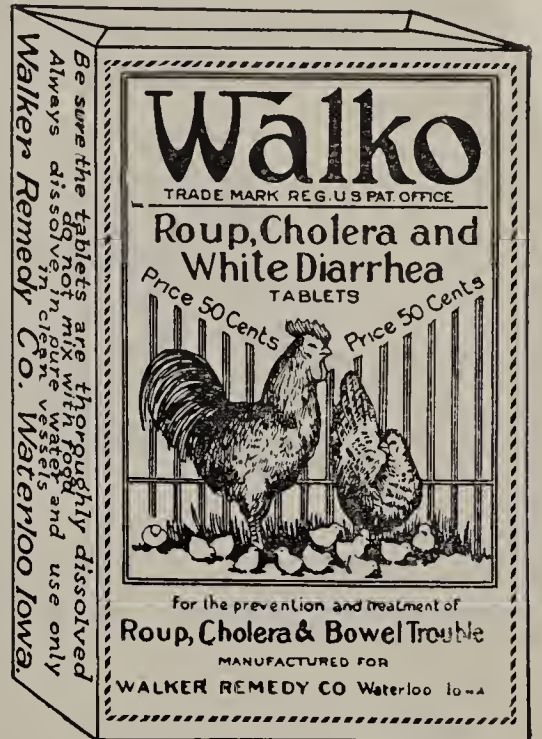
8-oz. bottle	-----	\$ .50
Pint cans	-----	.85
Quart cans	-----	1.45
1/2-gallon cans	-----	2.25
1-gallon cans	-----	3.75
5-gallon cans	-----	15.00

## \*McClellan's Pineasan

(A Soluble Pine Oil Deodorant)

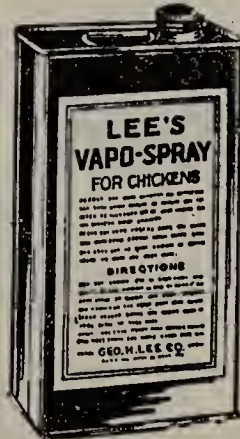
McClellan's Pineasan is a very high deodorant and cleaner. To be used in hospitals, jails, schools, hotels, kennels, stables, ranches, etc. To be used where a creosote disinfectant cannot be used. McClellan's Pineasan can be used in the scrub water as a cleaner.

Pint cans	-----	\$ .75
Quart cans	-----	1.00
1/2-gallon cans	-----	1.75
1-gallon cans	-----	3.00
5-gallon cans	-----	12.50



## Lee's Poultry Syringe

Many times in treating sick chickens it becomes necessary to give individual doses of medicine, and if the birds refuse to eat, this can only be done by the use of Lee's Poultry Syringe. Here are a few of its many uses: individual treatment of sick chickens; individual doses of epsom salts; washing out crop with Germozone in limberneck; doses of castor oil, sweet oil, or mineral oil; feeding milk or thin gruel to sick chickens. These and many other uses for this wonderful little syringe will be found wherever poultry is raised. 1 ounce capacity. 25 cents (30 cents postpaid).



## \*Lee Vapo-Spray

**VAPO-SPRAY**—A combination of healing oils, is sprayed in the air of the hen house at night. Its vapor is breathed into the nasal passages, throat, windpipe and lungs and acts directly on the inflamed parts. Also recommended for hogs.

1 Qt. can	-----	\$0.75
1/2 Gal. can	-----	1.25
1 Gal. can	-----	2.00

## \*Lee's Flu-Koff

**FLU-KOFF EMULSION**—A cough medicine for poultry and hogs and acts much the same as a cough syrup in human beings. It may be administered in water, thick slop, wet mash, or soaked grain (soaked oats preferred).

The medicine not only has a powerful tendency to allay the cough but also contains ingredients which reduce the temperature and are largely eliminated through the respiratory tract, thus overcoming irritation and inflammation.

**INGREDIENTS:** Oil Eucalyptus, Oil Pine Tar, Oil Anise, Beechwood Creosote, Chloroform, Camphor, Turpentine, Linseed Oil, Sodium Chloride, Water, Emulsive.

13-oz. bottle	-----	\$1.00
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# Avian Bacterin

VACCINATION PAYS



Stops poultry losses. Increases profits. Best preventive and treatment of mixed infections in poultry, including diphtheria, roup, colds, canker, cholera and their complications.

Vacinate with Avian Mixed Infection Bacterin.



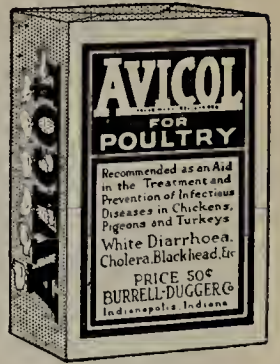
60 doses	-----	\$2.00
120 doses	-----	3.00
250 doses	-----	5.00
500 doses	-----	7.50
Quitman Syringe	-----	1.50
10-dose Glass Syringe	-----	1.25

# \*Avicol

For White Diarrhoea in Chicks, and Blackhead in Turkeys

Avicol does the work in 48 hours. Almost from the very moment you drop the first Avicol tablet in the drinking water, the sick chicks start to get well. Usually, in a short time, the very ones that seemed too weak and sick to live another day, are running around as lively as crickets, full of pep, hungry, hearty, scratching and pushing for a place at the feeding trough.

Price, 50c; special large size (almost 3 times 50c size), \$1.00.



# FOR COLDS in Poultry

# \*Croup-Over

Use Croup-Over at the very first symptoms of Roup or colds in your flock. It clears the air passages and brings relief with magic quickness. Easily used, both for individual treatment and in the drinking water for flock prevention.

Price: 50c; large size (3 times 50c size), \$1.00.

# Potassium Permanganate

An excellent germicide used extensively in drinking water for poultry to keep them in healthy condition. Has a very soothing effect on the membranes and linings of chicken's throat and intestines and is therefore very extensively used in curing the diseases of these tracts. Price 65c per lb. Not mailable.

**COD LIVER OIL**—To be used in poultry mashes. Experience has proven that Cod Liver Oil is very beneficial to poultry when mixed in fresh with mashes, but is of no value where it is mixed in and exposed to the air for a considerable length of time. ¼ gallon, 60c; ½ gallon, \$1.10; 1 gallon, \$2.00; 5 gallons, \$8.50.

**CONKEY'S Y-O**—To be mixed in mash feeds. 1 lb., 55c; 2 lbs., \$1.00; 5 lbs., \$2.00.

**NUX VOMICA**—To be mixed with poultry feed to kill hawks and rats. Will not affect poultry. Lb., 40c.

# Egg Preservatives



**EGG-O-LATUM**—Rub a fresh egg with Egg-O-Latum. Set it away on end in a cool dry cellar and it will keep perfectly fresh for one year.

Price, 50c, postpaid.

**RUTLAND'S WATER GLASS**—The use of water glass is a splendid way of preserving eggs for home use when eggs are cheap and holding them until the market on eggs is high, thus cutting down the cost of eggs for home use during the winter months. One can is sufficient to preserve from 16 to 20 dozen eggs.

Price, per can, 50c.

# \*Dr. Hess White Diarrhoea Tablets

For common diarrhoea, bacillary white diarrhoea, coccidiosis, or any form of bowel trouble affecting poultry. Used as a preventive and as a treatment. Given in the drinking water. 100 tablets, 50c.



# COCCIDIOSIS REMEDY

*Stops Losses Now!*

Dead Chicks Lose You Money

S-P Coccidiosis Remedy Will Keep Them Alive

Given in the drinking water. No starving of birds—no inconvenience. Easy to apply, is an excellent preventive. One box treats 100 to 125 chicks. Simply dissolve in the water.

Price per box, postpaid-----\$1.00\*



## \*Germo Germo-Form

The regular inhaling of the diffused germicidal gases from GERMO FORM is the most efficient and practical method for prevention and quick relief of Roup, Colds, Bronchitis, Pneumonia, Diphtheria, Influenza and all infectious Poultry Diseases of Head, Throat and Respiratory Organs.

GERMO FORM imparts a clean odor, purifies the air, and allays offensive and disagreeable odors. Because of the specially refined stabilized formaldehyde base and the added ingredients, GERMO FORM is decidedly less irritating and retains its potency for a maximum period. 8 oz.-----\$ .50  
16 oz.----- .30



## \*Germo Cholerine

Recognized by small users, as well as big commercial houses, who maintain feeding stations and poultry ranches, as one of the foremost remedies and tonics on the market. CHOLERINE should be purchased in quantities adaptable to the size of your flock.

3 oz.-----\$ .35  
16 oz.----- .60  
32 oz.----- 1.00



## \*Conkey's Poultry Remedies

Conkey's Poultry Conditioner-----Pkg., 25c, 50c  
Conkey's Poultry Laxative-----Pkg. 25c  
Conkey's Scaly Leg Remedy-----Pkg. 25c  
Conkey's Gape Remedy-----Pkg. 25c  
Conkey's Pills (Roup Pills)-----Pkg. 1.00  
Conkey's Diatex (White Diarrhoea Remedy)-----Pkg. 25c, 50c, \$1.00  
Conkey's Cholera Remedy-----Pkg. 25c, 50c, \$1.00  
Conkey's Balmo (Canker Special)-----Pkg. 50c  
Conkey's Old Reliable Powder (Roup Remedy)-----Pkg. 77c, \$2.25

CONKEY'S NOX-I-CIDE—Dip and Disinfectant. Pt., 50c; Qt., 80c; 1/2 gal., \$1.30.

## RATS

Kill Them With

### \*Topzol

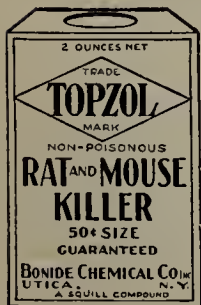
A NEW, SAFE, SURE AND SANE  
EXTERMINATOR

TOPZOL—A new EXTERMINATOR that is NON-POISONOUS to humans, domestic animals, poultry, dogs or cats; but will kill rats and mice quick. TOPZOL drives them outdoors to die. Numerous materials and contrivances have been designed for the destruction of rats and mice, but few of them have proved to be of outstanding use-

fulness. When using a deadly rat poison the danger of poisoning oneself as well as live stock, poultry, pet dog or cat, is always present. This danger is done away with when using TOPZOL as a rat and mouse killer, as it contains no deadly poison; having the distinct advantage of being relatively HARMLESS TO HUMANS AND DOMESTIC ANIMALS and therefore can be used with assured safety around the home, barn, poultry house, warehouse or any rat or mouse infested building.

### SATISFACTION GUARANTEED

TOPZOL is guaranteed to kill rats and mice and nothing else, when used according to directions. Purchase price refunded if it fails. 2-oz. can, 50c, postpaid.



## \*Delcreo Dog Remedies

Delcreo Tonic and Conditioner-----\$ .75  
Delcreo Eye Lotion----- .60  
Delcreo Vermifuge----- .60  
Delcreo Laxative----- .35  
Delcreo Distemper----- 1.50  
Delcreo Worm Tablets----- .65  
Delcreo Worm Tablets, toy dogs----- .65

## \*Q-W Dog Remedies



Q-W Flea Powder-----\$1.00  
Q-W Mange Soap----- 1.00  
Q-W Condition Powder----- 1.00  
Q-W Flea Oil and Coat Grower----- 1.00  
Q-W Mange Lotion----- 1.00  
Q-W Distemperol----- 2.00  
Q-W Eye Salve----- 1.00  
Q-W Diarrhoea and Dysentery  
Tablets----- 1.25

Q-W Fit and Sedative Tablets----- 1.25  
Q-W Red Blood Builder----- 1.00  
Q-W Constipation Pills----- 1.00  
Q-W Ear Canker Lotion----- 1.25  
Q-W Worm Capsules----- .65  
Q-W Healing Salve----- 1.00

## \*Glover's Dog Remedies

Glover's Nerve Sedative-----\$0.65  
Glover's Sore Foot Medicine----- .65  
Glover's Diarrhoea Medicine----- .65  
Glover's Vermifuge----- .65  
Glover's Worm Capsules----- .65  
Glover's Sulphur Tablets----- .65  
Glover's Medicated Soap----- .25  
Glover's Condition Pills----- .65

## \*Clayton's Dog Remedies

Kill Flea Powder-----\$0.35  
Kill Flea Soap----- .25  
Ceoline Dog Soap----- .25  
Condition Pills----- .60  
Puppy Tonic----- .60  
Disemperine----- .60  
Distemperine Tablets----- .60  
Worm Bullets----- .60  
Worm Pills----- .60  
Diarrhoea Tablets----- .60  
Blood Pills----- .60  
Vermifuge Capsules----- .60  
Vermifuge Liquid----- .60  
Tape Worm Expeller----- .60  
Mange Medicine----- .60  
Digestive Tablets----- .60  
Laxative Pills----- .60  
Canker Lotion----- .60  
Fit Remedy----- .60  
Skin Medicine, toy dogs----- .60  
Cod Liver Oil with Hypophosphates of Lime & Soda 1.00



## \*Red Seal Rat Death



RED SEAL RAT DEATH is not new or an experiment but has been successfully used in all work done by the International Exterminator Company who for 21 years have specialized in ridding institutions and large buildings of these pests. However, this is the first time it has been offered for sale to the home consumer and is filling a long felt want. It not only kills rats and mice but embalms and dries them up, thus leaving no odor.

2-oz. can-----\$ .50  
8-oz. can----- 1.50



# Sergeant's

## \*Dog Medicines

Run-Fit Medicine	\$1.20
Distemper Medicine	1.00
Mange Medicine	.50
Mange Medicine (no tar ordor)	.75
Condition Pills	.50
Sure Shot Capsules for Worms	.50
Sure Shot Liquid for Worms	.50
Tape Worm Medicine	.50
Arsenate and Iron Pills	.50
Canker Wash, for the Ear	.50
Well Mouth, for the Mouth	.50
Pepsin Tablets, for indigestion	.50
Diarrhoea Medicine	.50
Cough Medicine for Colds	.50
Rheumatic Pills	.50
Dog Rub, a liniment	.50
Eye Wash	.50
Constipation Capsules	.50
Carbolic Tar Soap	.25
Skip Flea Soap, for Fleas and Lice	.25
Skip Flea Powder	.25
Puppy Worm Capsules	.50
Shampoo Soap	.25
Disinfectant, 4-oz. bottle	.25

## \*McClellan's Dog Remedies

McClellan's Dog Shampoo	\$0.50
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## \*McClellan's Flea Powder

McClellan's Flea Powder is entirely different from all other flea powders on the market for the reason we have perfumed it with a very delicate perfume so after using on the animals it will leave a very pleasant odor instead of the smell of disagreeable chemicals as most all other flea powders leave. We have also used every precaution in selecting a powder that would be non-injurious to the animals as most dogs and cats clean themselves often. 3-oz. cans, 50c.

# Sergeant's

## DOG FOOD

Sergeant's Dog Bread—Lb., 15c; 2 lbs., 25c; 100 lbs., \$10.	
Wonder Dog Food, 10-oz. can	\$0.10
Wonder Dog Food, 20-oz. can	.20

## Red Chain Dog Nuggets

A perfectly balanced food that is not only a complete ration but is so economical that it is easily afforded by any dog owner. Composed of such ingredients as dried ground meat, dried skim milk, ground wheat, cornmeal, steam cooked oatmeal, corn germ oil meal, cod liver meal. Compressed into nugget form, they supply food in a more natural form. Lb., 10c; 3 lbs., 25c; 25 lbs., \$1.75; 100 lbs., \$5.00.

## \*Clayton's Cat Remedies

Cat Mange Remedy	\$0.60
Cat Distemperine Tablets	.60
Cat Tonic Catnip Condition Tablets	.60
Cat Blood Purifying and Cooling	.60
Cat Laxative Tablets	.60
Cat Digestive Tablets	.60
Cat Worm Tablets	.60
Cat Tape Worm Expeller Tablets	.60
Cat Vermifuge (liquid)	.60
Cat Canker Lotion Tablets	.60
Cat Fit Tablets	.60
Cat Diarrhoea Tablets	.60
Cat Wash and Disinfectant	.25
Cat Mouth Wash	.60
Cat Eye Lotion	.60
Cat Cough Remedy	.60
Cat Soap	.25



## Free Dog Book

Polk Miller's famous book on the care, feeding and breeding of dogs will be sent free to all dog owners and dog lovers.

## Dr. LeGear's Dog Remedies

Cod Liver Oil Concentrate Tablets	50c and \$1.00
Round and Hook Worm Capsules for small dogs	.50
Round and Hook Worm Capsules for Medium-Large Dogs	.50
Tape Worm Tablets	.50
Mange Prescription	.50
Tonic Condition Tablets	.50
Kennel Disinfectant	.50
Flea and Lice Powder	.25
Flea and Shampoo Soap	.25
Laxative Tablets	.50
Pepsin Compound Tablets	.50
Special Tablets (for reducing fever)	1.00
Nerve Sedative Tablets	1.00
Eye Lotion	.50

## Rabbit Remedies and Supplies

**\*McCLELLAN'S CANKER-RAB** (Formerly McClellan's Rabbit Ear Canker Remedy—For Ear Canker in Rabbits and Furred Animals. 2-oz bottle, 50c.

**\*McCLELLAN'S RABBIT BOWEL CONDITIONER** (Formerly Rabbit Diarrhoea Remedy)—2-oz. bottle, 50c.

**\*McCLELLAN'S LARGE ROUND WORM EMULSION AND CONDITIONER**—2-oz. bottle, 50c.

**McCLELLAN'S RABBIT COLD PREPARATION**—See Bronki-ol Inhalant.

**McCLELLAN'S RABBIT SNUFFLE PREPARATION**—See Bronki-ol Inhalant.

**RABBOTENE MEDICATED SALT SPOOLS** (Prepared especially for Rabbits)—Compounded from pure mineral salt with iron, sulphur, potassium iodide and selected medicinal roots and herbs of great value to digestion and assimilation in rabbits. 15c each; 2 for 25c; roll of 10 spools, \$1.00.

Sulphurized Salt Spools—5c each; 6 for 25c.

## Stoneware For Rabbits and Poultry

	Each
1 gallon Water Jug	\$0.25
2 gallon 2-piece Fount	.80
1 gallon 2-piece Buttermilk Fount	.50
2 gallon 2-piece Buttermilk Fount	.75
1 gallon 1-piece Non-Splash Buttermilk Fount	.75
Round Open Crock for Rabbits	.15
Round Crock with Lip for Rabbits	.20



## Granulated Peat Moss

Something new which is just coming into general use. Imported Peat Moss is a brown, soft and spongy matter, formed years ago by the decay of mosses and other vegetable matter. It has high fertilizing value; holds moisture and is especially valuable for waxy lands. One bale is sufficient to cover 240 square feet one inch deep. The bale weighs approximately 140 pounds. Ideal for potting bulbs, either to be grown in water or under soil conditions. 5c per lb.; \$3.00 per bale, f.o.b., San Antonio.

## \*Lactic

A Pure Edible Lactic Acid

**LACTIC** gives the handler of live poultry all the active appetizing, digestive and medicinal principles of Buttermilk in a concentrated form, free from all objectionable features of buttermilk. One 6-ounce bottle of LACTIC contains the equivalent of the lactic acid of 30 gallons of buttermilk. 6-oz. bottle, \$1.00.



# Bird Feed and Remedies

## CARE OF BIRDS

The care of birds of all kinds is extremely simple. Proper food, plenty of fresh water, absolute cage sanitation—and your bird will live its allotted life. Care should of course be used to see that birds are not placed in draughts. Cage birds are not accustomed to draughts and cannot endure them without developing colds and often pneumonia.

The dealer from whom you purchase your bird is the logical party to tell you what to feed it and how to take care of it—and you should be sure to ask for this information.

Cage sanitation implies a daily change and cleaning of the cage. For the smaller birds, sand should be kept in the bottom of the cage, and this sand should be changed daily. Parrots should have grit in the bottom of their cage, and this should be changed daily. If you use a litter in the bottom of the cage, we suggest that a small cup of grit be made available for the bird, also.

Fresh water is essential. All birds must have water and it should be furnished fresh daily or twice a day.

Birds should be kept free from mites, lice, etc. These pests will kill your pets if allowed to breed without disturbance. Mite powders applied to the birds are good. Cages should also be freed either with scalding water or sprayed with Flyrol.

For Prompt Service add sufficient postage for delivery (see page 2).



## Bulk Seeds

All of our bulk seeds are the finest the market affords, double recleaned in order to remove all foreign particles and dust.

**SATEX CANARY MIXTURE**—A mixture of Sicily Canary, German Rape, millet and hemp, in the proper proportions for canary health. **Lb., 15c.**

**SATEX LOVE BIRD MIXTURE**—A mixture of Sicily Canary and millet, balanced for Love Birds. **Lb., 15c.**

**SICILY CANARY SEED**—A splendid diet for reconditioning a canary, to be fed for a month with only a touch of apple about twice each week. **Lb., 15c.**

**HEMP**—Good parrot food and also much liked by bee paroquets and cardinals. Should be fed to canaries in very limited quantities as it is too rich for them. **Lb., 10c.**

**MAW or POPPY SEED**—Another popular seed with canaries and some of the finch family. **Lb., 40c.**

**MILLET**—Frequently used as the principal food for strawberry finches. **Lb., 10c.**

**GERMAN RAPE**—A song food which should be combined with Sicily Canary and other seeds. **Lb., 15c.**

**RECLEANED SUNFLOWER SEED**—Fine for parrots—in fact, their main food. **Lb., 15c.**

## Magic Song Restorer

### THE IDEAL SONG AND HEALTH FOOD

A mixture which we are glad to recommend to our customers as producing the best results. Containing more expensive ingredients than other song restorers. Contains egg flakes unexcelled for young birds.

30c package.....25c



## Philadelphia Bird Food Co.



Bird Manna, each, 15c; 2 for.....	25c
Red Gravel, small size.....	15c
Red Gravel, large size.....	25c
Silver Gravel, small size.....	15c
Silver Gravel, large size.....	25c
Mocking Bird Food.....	40c
Bird Bitters.....	25c
Song Restorer Drahotas.....	15c
Mite Powder for Birds.....	25c
Nesting Hair in boxes.....	10c
Nesting Food, box.....	25c
Orange Color Food.....	25c
Moulting Pepper.....	25c



## French's Bird Feeds and Remedies

French's Mixed Bird Seed.....	12c
French's Gravel.....	10c
French's Bird Ointment.....	25c
French's Bird Charcoal.....	10c
French's Parrot Medicine.....	25c
French's Bird Biscuit.....	10c
French's Canary Exercise Balls.....	10c
Burnett's Bird Gravel.....	18c

## Spratt's Bird Remedies

Spratt's Egg-Flake and Fruit, 1-lb. pkg.....	25c
Spratt's Mixed Bird Seed, pkg.....	25c
Spratt's Sing Song, per tin.....	15c
2 for.....	25c
Spratt's Orange Color Food, pkg.....	25c
Spratt's Moulting Food, pkg.....	25c
Spratt's Cod Liver Oil Cage Bird and Nestling Food, pkg.....	15c
Spratt's Finch Mixture.....	25c
Spratt's Parrot Mixture.....	20c
Spratt's Parrot Tonic.....	25c
Spratt's Mocking Bird Food.....	25c



### CUTTLE FISH BONE

Oz.....	10c	Lb.....	65c
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## Haller's Bird Remedies



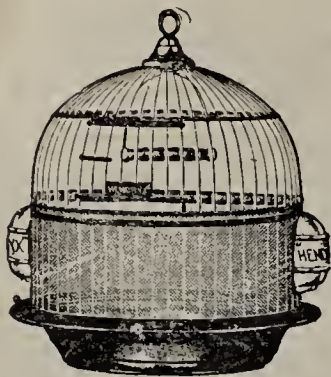
Scaly Leg Oil.....	25c
Feather Restorer.....	25c
Health Food.....	25c
Bird Cage Wash.....	25c
Bird Bath.....	25c
Bird Tonic.....	25c
Bird Nesting.....	10c
Lice Powder.....	25c
Moulting Food.....	25c
Bird Bitters.....	25c

Nestling Food.....	15c
Poppy Seed.....	25c
Hemp and Pepper.....	10c
Ha-Ha Song Feed.....	25c
Health Grits.....	10c
Burnett's Louse Powder.....	25c
Burnett's Bird Tonic.....	15c

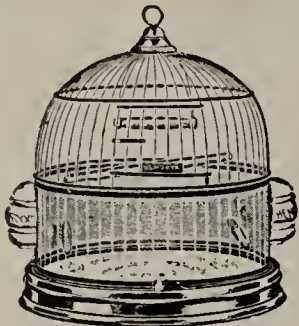


Bird Cages and Stands

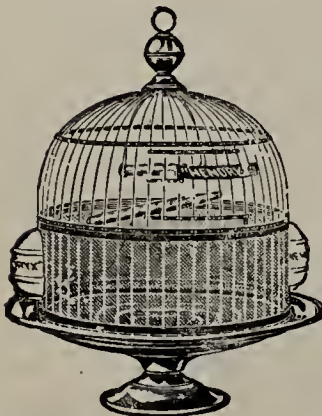
All cages and stands are Genuine Hendryx or Lindemann.



No. 1275



No. 2274



No. 2625



No. 2030

BIRD CAGE STANDS

Colors—Red and Black, Green and Black, Blue and Gold

No. 57—Duco Half Moon, height 5 ft., 5 in.,	\$2.50	\$1.69
No. 59—Brass Half Moon, height 5 ft., 5 in.,	3.00	1.94
No. 29—Brass Half Moon, height 5 ft., 5 in.,	3.50	1.99
No. 30—Brass Full Moon, height 5 ft., 5 in.,	4.25	2.99
No. 20—Duco Full Moon, height 5 ft., 5 in.,	2.75	1.99

BIRD CAGES—ALL BRASS

Complete with swing, three perches, outside cups, removable tray and seed guard.

No. 5004—Body 9½x6⅜ in., height 12 in.,	\$2.75	2.09
No. 274—Diameter 10⅞ in., height 14½ in.,	\$3.00	1.94
No. 2625—Diameter 10¼ in., height 12 in.,	\$3.00	1.99
No. 2365—Diameter 10½ in., height 12 in.,	\$3.00	1.94
No. 7004—Body 9½x6¼ in., height 12¼ in.,	\$3.25	2.49

JAPANNED OBLONG CAGES

An old favorite in green. Well built. Complete with swing, three perches and seed cup.

No. 165—Body 9¾x6¼ in., height 12⅝ in.,	\$2.00	\$1.69
No. 166—Body 10⅝x6⅝ in., height 13⅝ in.,	\$2.25	1.84
No. 167—Body 11 x7½ in., height 14 in.,	\$2.50	1.99

SPECIAL—S. C. Cage and Stand complete with all equipment and Seed Guard. Colors: Red or Green with Black Trimmings. Drawer base. A splendid value. \$2.50  
Cage or Stand, separate. Each 1.25

ROUND CAGES, FLAT BASE

Complete with all equipment and seed guard. Colored base and top with brass body. Colors—Blue, green and red.

No. 2274TT—Diam. 10⅞ in., height 13 in.,	\$2.75
No. L585—Diam. 10¼ in., height 14 in.,	\$3.40 2.19
No. 2275TT—Diam. 11 in., height 13⅝ in.,	\$3.50 2.69
No. 2276TT—Diam. 11¾ in., height 14¼ in.,	\$4.25 3.49
No. 3274—Diam. 10¼ in., height 14 in.,	\$3.75 2.79

Colors—Green and Black, Red and Black, Blue and Gold.

No. 2274—Diam. 10⅞ in., height 13 in.,	\$3.40 2.49
No. 4274—Diam. 10⅞ in., height 14½ in.,	\$3.75 1.99

Colored Base and Top with brass body. Colors—Blue, Green and Red.

No. 3275—Diam. 11 in., height 14½ in.,	\$4.00 2.79
Colors—Blue and Black, Blue and Gold.	
No. 4275—Diam. 11 in., height 14½ in.,	\$3.50 2.69

No. 2030—Japanese type. See cut. Diam. 10 in., height 17⅞ in., Color—Red and Black. Drawer base, \$8.25	6.50
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No. L485—Diam. 10¼ in., height 14 in. Colors—Blue, Red, and Green, 3.75	2.49
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No. L686D—Diam. 11in., height 14 in. Colors—Green and Gold, Red and Gold, Blue and Gold. Drawer base, \$5.50	3.79
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TRAVELING CAGES

No. 91 —Body 7¼x5⅞ in., height 5½ in., Japanned	\$1.75
No. 91½—Diam. 7in., height 6½ in., Japanned	2.00

PARROT CAGES

Standard tinned. Very strong, complete with swing, perch and feed cups.

No. 80—Diameter 14 in., height 23 in.,	\$7.25 \$4.69
No. 85—Diameter 15½ in., height 24 in.,	\$8.50 5.59

BREEDING CAGES

With solid and wire partitions metal drawer closed back, four glass cups, six perches and two nests. A splendid mating cage.

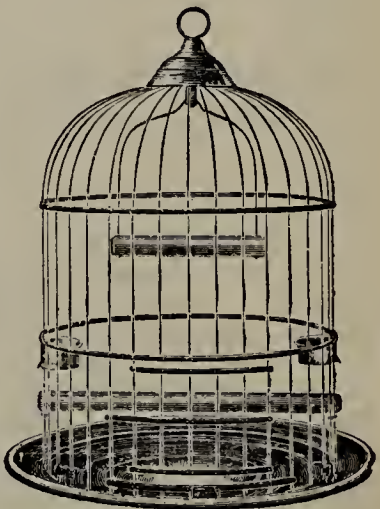
No. 86S—Body 17¼x 8¾ in., height 14 in.,	\$5.00 3.99
No. 87 —Body 22 x11 in., height 16½ in.,	\$6.00 4.79
No. 88 —Body 24 x12½ in., height 17 in.,	\$7.00 5.59



No. 57  
Half Moon



No. 4274



No. 70, 80, 85 Parrot Cages

Cage Supplies

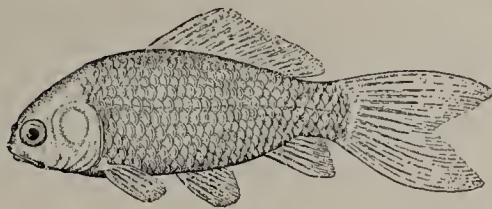
Feed Cup, Crystal. Open or closed top, each	.15	Canary Bath House, each	.75
Non-breakable Feed Cups	.25	Egg Food Cup, each	.05
Bird Nests, Hendryx	.15	Opal Bath Tubs, 4½ inches, each	.20
Bird Nests, Lindemann	.10	Opal Bath Tubs, 5¼ inches, each	.25
Nesting Hair	.10	Wall Brackets, nickel, 12 inches, Style Q, each	.20
Perch Stock, per foot	.10	Wall Brackets, brass, 12 inches, Style I, each	.25
Leg Bands, each	.01	Cage Springs, Medium, No. 16, each	.15
Cage Swings	.10	" " Small, No. 145, each	.10
Spratt's Mite Traps	.25	No. 282, Brass Chains and Springs, each	.30
		Feed Cup, Opal, Open or Closed Top, each	.15





## Fishing Boys

Each ----- 50c  
Postage 10c extra



## Fish

A Fascinating Gift  
**COMMON GOLDFISH**

Medium, each ----- 10c

### COMETS

Similar to Common, except that the tails are almost as long as the body. Very beautiful.

Medium, each ----- 25c

### FANCY FANTAILS

Similar to Telescopes, except eyes which are like Goldfish.

Medium, each ----- 25c

### TELESCOPES

Medium, each ----- 40c

Add 25c extra for shipping can.

### PINK BELLIED JAPANESE NEWTS

Resemble a lizzard. Live in water, aquarium scavengers, about 4 in. long.

Each ----- 40c



583

## Castles



602

3-in. high, each \$0.20  
4-in. high, each .30  
5-in. high, each .40  
No. 583, 6-in. .75



596

## Shells

Colored Shells,  
per box \$0.15  
Colored Pearl  
Chips, per lb. .15  
Sand, per box .15  
Snails, each 10c, 25c



## Aquarium Stands

Each ----- \$1.60

## Moss

or AQUARIUM PLANTS

Per Bunch ----- 10c  
Not Mailable

## Aquariums

### COMMON SENSE BOWLS

Style A—Bowl is strong and less liable to breakage. These bowls are hand-made and annealed after molding.

1-gal. Fish Bowl, each \$0.55  
2-gal. Fish Bowl, each 1.00  
3-gal. Fish Bowl, each 2.00

### SQUAT GLASS BOWLS

½-gal. Round Squat Bowl, each \$0.35  
1-gal. Round Squat Bowl, each .55  
2-gal. Round Squat Bowl, each 1.00  
3-gal. Round Squat Bowl, each 2.00

### COLORLED GLASS BOWLS

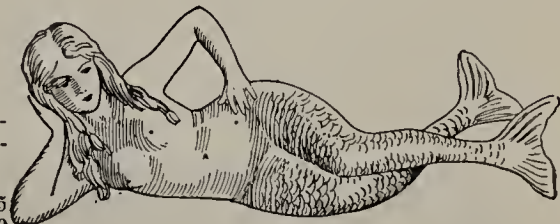
Colors: Blue, Green and Canary.

1½-gal. Colored Glass Bowl, each \$1.50

### SQUARE AQUARIUM

Steel frame aquarium with electrically welded corners. Bottoms of heavy glass. The sides are selected crystal glass. It has improvised feet of great strength and perfectly leveled, standing solidly on a level surface. Finished in green with gold striping.

No. 103—4.8 gal., 14x8x10, each \$6.00

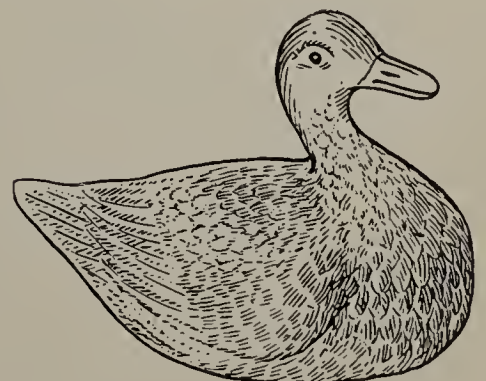


## Colored Bisque Mermaids

Each ----- 35c, 50c, \$1.00  
Postage 10c extra

## Fish Foods

Spratt's Wafer ----- \$0.08  
Burnett's Granulated ----- .10  
Spratt's Granulated ----- .10  
Zeke Turtle Food ----- .10  
Spratt's Ant Eggs ----- .25



## Celluloid Figures

Frogs, each ----- 10c  
Turtles, each ----- 10c  
Ducks, each ----- 10c  
Lobsters, each ----- 10c

### NOTE

We carry other types of aquariums and stands but for lack of space in catalog, we are unable to list same. We also stock a complete line of

### DOG SUPPLIES

such as blankets, sweaters, collars, leashes, harness, muzzles, etc. Should you be interested in any of these items, we would be very glad to mail you a price list.





## PERSONALITY doesn't mean just the *person*

It means things that surround  
you ... your background ...  
your home as much as you and  
the things you wear.

Make your home modish ...  
gleaming ... colorful!

It's easy, inexpensive to restore  
styleful newness to floors, furni-  
ture, woodwork, to make home  
glow with color by use of



—WaterSpar Varnish that even boiling  
water cannot harm. WaterSpar Enamel  
that dries in four hours and gives beau-  
tiful china-smooth finish. WaterSpar  
Liquid Wax to give supreme lustre and  
elegance!

Marvelously soft hues! Glorious shining  
colors! Stop in for Color Cards.

## Paint Brushes

All brushes set in rubber.

### MANDARIN

1	inch	-----	\$ .25
1½	inches	-----	.30
2	inches	-----	.40
2½	inches	-----	.50

### FULTON

1½	inches	-----	\$ .50
2	inches	-----	.75
2½	inches	-----	.90

### ARKAY

2½	inches	-----	\$1.25
3	inches	-----	1.50
4	inches	-----	2.00

**NOTE:**—We carry highest grade of  
linseed oil, turpentine, sand paper, etc.  
Can supply you with any Pittsburg  
product such as Roof Paint, Barn Paint,  
Stains, etc.

# PITTSBURGH

## *Proof* Products

### Glass-Paint-Varnish-Brushes

## Waterspar Quick Drying Enamel

WATERSPAR QUICK DRYING ENAMEL is designed to meet the  
present day demand for a product embodying the characteristic of quick  
drying without the least sacrifice in the essential properties of brushing  
hiding, adhesion or durability.

Householders will be delighted with the ease with which it can be  
used, with the wonderful finish produced, and the convenience and  
utility imparted to it by its high speed drying. It dries for use in four  
hours to a very pleasing high satin gloss. It is designed chiefly for  
household use on furniture, toys, wagons, refrigerators, flower boxes,  
cabinets, interior fixtures and many similar objects. Suitable for interior  
floors, can be walked on in six hours. Also a splendid enamel for  
automobiles.

### COLORS

No. 71—White.	No. 78—Peacock Blue.
No. 72—Black.	No. 79—Quaker Gray.
No. 73—Tangerine.	No. 80—Clover.
No. 74—Canary Yellow.	No. 81—Walnut Brown.
No. 75—Niagara Green.	No. 86—Navajo Red.
No. 76—Chinese Red.	No. 92—Deep Maroon.
No. 77—Cream.	

1-32 gal., 27c; 1-16 gal., 45c; 1-8 gal., 65c; 1-4 gal., \$1.15.  
Nos. 76, 86, 92—1-32 gal., 30c; 1-16 gal., 50c; 1-8 gal., 80c; 1-4 gal., \$1.45.

## Waterspar Varnish

A general all-purpose varnish suitable for inside or outside use.  
Colorless, brilliant and durable. WATERSPAR VARNISH is long in  
oil. Dries with a tough and elastic film that withstands hard usage,  
whether on floors, woodwork or other surfaces. Surfaces finished with  
it may be submerged in water month after month without turning white.

### COLORS

Transparent.	No. 6—Mahogany.
No. 4—Dark Oak.	No. 11—Light Oak.
No. 5—Walnut.	

1-32 gal., 25c; 1-16 gal., 40c; 1-8 gal., 60c; 1-4 gal., \$1.05; 1-2 gal., \$2.00  
1 gal., \$3.65

## Plasco

### READY MIXED PAINT

PLASCO is a prepared paint suitable for either interior or exterior  
surfaces. It is especially made to meet the demand for a paint that  
is priced somewhat lower than the highest quality product, but which  
will give satisfactory service. It works easily, covers well, has excellent  
body and dries with a good oil gloss in from 12 to 18 hours.

### COLORS

No. 1—Light Cream.	No. 18—Light Blue.
No. 3—Straw.	No. 22—Blind Green.
No. 5—Buff.	No. 21—Lemon.
No. 11—Light Gray.	No. 30—Outside White.
No. 13—Lead Color.	No. 31—Inside Flat White.
No. 17—Nile Green.	

1-8 gal., 45c; 1-4 gal., 70c; 1-2 gal., \$1.40; 1 gal., \$2.55.

## Florhide Enamel

A Liquid Floor Enamel for Interior and Exterior Use.

FLORHIDE ENAMEL is made for protecting and decorating interior  
and exterior floors and interior upright surfaces, wood, cement, stone,  
plaster or metal where a high gloss enamel finish is desired.

### COLORS

No. 1—Light Yellow.	No. 8—Brown.
No. 2—Dark Yellow.	No. 9—Fawn.
No. 5—Light Drab.	No. 10—Dark Slate.
No. 6—Dirt Color.	No. 11—Dixie Gray.
No. 7—Lead Color.	

1-8 gal., 50c; 1-4 gal., 90c; 1-2 gal., \$1.75; 1 gal., \$2.85.

## Wagon and Tractor Enamel Paints

A high gloss enamel paint for use on all vehicles and exterior surfaces.  
The pigments are selected for fineness of particles and permanence of  
color. They are given the same fineness of grind as all high grade  
enamels. Flows freely, covers exceptionally well, dries in about 18 hours.

### COLORS

No. 1—Black.	
1-16 gal., 40c; 1-8 gal., 65c; 1-2 gal., \$1.10.	
No. 2—Green.	No. 4—Yellow.
No. 3—Vermilion.	No. 9—Gray.
1-16 gal., 45c; 1-8 gal., 75c; 1-4 gal., \$1.25.	



# Garden Seeding Table

Name of Vegetables	Seeds required for		Distance for Plants		Ready for use from seed in about
	100-ft. Row	One Acre	In Rows	Rows Apart	
Artichoke	1 oz.	6 oz.	2 ft.	3 to 4 ft.	8 months
Asparagus	2½ oz.	4 lbs.	1 to 2 ft.	3 to 4 ft.	3 to 4 years
Beans, Bush	1 lb.	1 bush.	6 in.	2 ft.	45 to 65 days
Beans, Pole	1 lb.	20 to 30 lbs.	3 ft.	4 ft.	65 to 90 "
Beet, Table	2 oz.	5 lbs.	4 in.	1 to 1½ ft.	60 to 75 "
Beet, Mangel	1 oz.	5 lbs.	8 in.	2 to 2½ ft.	150 "
Broccoli	1-3 oz.	2 oz.	2 ft.	2½ ft.	120 "
Brussels Sprouts	1-3 oz.	2 oz.	2 ft.	2 ft.	100 to 120 "
Cabbage, early	1-3 oz.	4 oz.	18 in.	2½ ft.	100 to 120 "
Cabbage, late	1-3 oz.	4 oz.	2½ ft.	3 ft.	125 to 180 "
Carrots	1 oz.	3 lbs.	4 in.	1½ to 2 ft.	75 to 120 "
Cauliflower	1-3 oz.	½ lb.	2 ft.	2½ ft.	100 to 135 "
Celery	1-3 oz.	2 oz.	6 in.	3 to 4 ft.	125 to 150 "
Corn, Salad	3 oz.		4 in.	12 to 13 in.	65 "
Corn, Sweet	½ pt. 100 hills	15 lbs.	3 ft.	4 ft.	65 to 100 "
Cress	½ oz.	2 to 3 lbs.	1 in.	1 ft.	30 "
Cucumber	1 oz.	1 to 2 lbs.	4 ft.	4 ft.	60 to 85 "
Egg Plant	1-3 oz.	4 oz.	2½ ft.	3 ft.	150 to 160 "
Endive	1 oz.	4 lbs.	1 ft.	1½ ft.	50 to 75 "
Kale	1-3 oz.	2 lbs.	2 ft.	2½ ft.	100 to 120 "
Kohlrabi	1-3 oz.	2 lbs.	6 in.	1½ ft.	75 "
Leek	1 oz.	2 lbs.	6 in.	1½ ft.	120 to 160 "
Lettuce	1 oz.	1 lb.	1 ft.	1½ ft.	65 to 100 "
Melons, Musk	½ oz.	1 to 2 lbs.	4 ft.	5 ft.	115 to 140 "
Melons, Water	1 oz.	1 to 2 lbs.	8 ft.	8 ft.	120 to 140 "
Okra	2 oz.	5 lbs.	1½ ft.	2 ft.	90 to 125 "
Onion	1 oz.	5 to 6 lbs.	3 in.	1 ft.	135 to 150 "
Parsley	½ oz.	3 lbs.	4 in.	1½ ft.	100 "
Parsnip	½ oz.	3 lbs.	6 in.	1½ ft.	125 to 150 "
Peas	1 to 2 pts.	1 to 1½ bush.	2 in.	2 to 4 ft.	50 to 75 "
Pepper	⅛ oz.	½ lb.	2 ft.	2 ft.	140 to 150 "
Potato, cut	5 lbs.	7 to 10 bush.	1 ft.	2½ ft.	80 to 140 "
Pumpkin	1 oz.	2 lbs.	8 ft.	8 ft.	100 to 120 "
Radish	1 oz.	8 to 10 lbs.	2 to 4 in.	1½ ft.	20 to 50 "
Salsify	1 oz.	8 lbs.	6 in.	1½ ft.	125 to 150 "
Spinach	1 oz.	10 lbs.	4 in.	15 in.	30 to 60 "
Squash, Bush	½ oz.	2 lbs.	3 ft.	4 ft.	60 to 75 "
Squash, late	½ oz.	2 lbs.	7 ft.	8 ft.	90 to 125 "
Tomato	⅛ oz.	2 to 4 oz.	4 ft.	4 ft.	100 to 125 "
Turnip	½ oz.	1 to 2 lbs.	6 in.	1 ft.	60 to 75 "

## Poultry and Stock Feeds

All prices quoted f.o.b. San Antonio, Texas, and subject to change without notice.

NOTICE—As all poultry and stock feeds are subject to market changes, we cannot quote these in this catalog by the 100 lbs. If you are interested, we will gladly mail you our monthly house pamphlet, SATEx CACKLES, which contains a complete price list each month. Also timely topics which will be of interest to all poultry men. It is free and does not obligate you in any way and at the same time will give you some interesting reading matter and keep you posted on the markets. May we have your name and address, so that we can send you this pamphlet each month.?

Lb. 25 Lbs.

Oyster Shell, fine and coarse	_____
Pearl Grit, fine and coarse	_____
Meat Scraps	_____
Tankage	_____
Bone Meal	_____
Linseed Meal	_____
Alfalfa Meal, Triple XXX Pea Green	_____
Charcoal, fine and medium	_____
Pepper Seed	_____
Rolled Oatmeal	_____
Blood Meal	_____
Dried Buttermilk	_____
Ground Oats Groats	_____
Fine Ground Oats	_____
Coarse Ground Oats	_____
Calcium Carbonate	_____

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CACKLES"

### 100 LBS.NET ARMOUR'S MEAT & BONE (MEAT SCRAPS)

GUARANTEED ANALYSIS  
PROTEIN 50%  
BONE PHOS. OF LIME 20%  
FAT 6%  
CRUDE FIBRE (NOT OVER) 2%  
(CRACKLINGS)

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ARMOUR AND COMPANY  
GENERAL OFFICES  
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**WILL  
THEY  
LIVE?**



**L**IFE--or death--for baby chicks depends largely upon what you feed them. RED CHAIN is the premier Chick Starter of the Southwest because more poultry raisers **KNOW** it increases livability and produces stronger, healthier chicks. RED CHAIN for many years has contained a high percentage of Dried Buttermilk, Oatmeal, Dehydrated Orange Peel and Pulp and tested Cod Liver Oil Meal. And now, to these quality ingredients have been added Wheat Germ Meal and Precipitated Calcium Carbonate.

You'll raise **MORE** Chicks with RED CHAIN--Now, more than ever before the High Quality Chick Starter!

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TESTED  
and  
FARM  
PROVED  
--for Southern  
Conditions**

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SUPERIOR Feeds**

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